

EUROPEAN CONGRESS AND EXHIBITION ON ADVANCED MATERIALS AND PROCESSES

Final Program

17-22 SEPTEMBER 2017 THESSALONIKI, GREECE

CONFERENCE CULTURAL CENTER "Thessaloniki Concert Hall"

www.euromat2017.fems.eu

E U R O M A T 2 0 1 7







Thessaloniki

Established in the 4th c. BC, Thessaloniki has always maintained its urban character and remained a civic center and hub of the region. The city's centuries-old multicultural history has been associated with great empires, such as the Roman, Byzantine and Ottoman. The town was also greatly influenced by many ethnic and religious groups (Jews, Latins, Armenians and others) as well as Greeks from Constantinople, Pontus [modern-day northeastern Turkey] and Asia Minor [a.k.a. Anatolia]. The numerous monuments, dating to various historical periods, coexist in a singular and charming way and manifest Thessaloniki's historical multicultural and cosmopolitan nature. Nowadays, the historic capital -by right- of Macedonia, the land of Alexander the Great, has evolved into a modern and particularly charming metropolis. A multitude of monuments and cultural assets and the town's traditional ways exist in harmony with modern trends and high quality infrastructure, the relaxed atmosphere, the spirit of hospitality, the vitality of the locals – particularly the young – setting the pace of town life, the diversity of artistic events, the long list of choices for entertainment, the exceptional culinary tradition, and the fresh breezes coming from the seafront and the coolness of the northwest wind, Vardaris. Thessaloniki is situated at the heart of an extensive area of incomparable historical monuments and natural assets and provides the opportunity to visit archaeological sites known the world over (Ancient Pella, Vergina, Dion, Petralona Cave and so on), to areas of exquisite nature (river deltas, lakes, Mt Olympus), to the monastic state of Agion Oros [the Holy Mountain better known as Mount Athos] as well as to Halkidiki, a famous tourist destination. Of course, there is always an opportunity for sports (swimming, skiing, golf and so on) or to indulge in health tourism (hot springs and spas). In short, Thessaloniki is a city that caters to even the most demanding needs vear round.

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Program at a glance

TIME	SUNDAY 17 th	TIME	MONDAY 18 th	TUESDAY 19 th	WEDNESDAY 20 th	THURSDAY 21st	FRIDAY 22 nd
08:00		08:00 - 13:00	REGISTRATION/ CONFERENCE SECRETARIAT	REGISTRATION/ CONFERENCE SECRETARIAT	REGISTRATION/ CONFERENCE SECRETARIAT	REGISTRATION/ CONFERENCE SECRETARIAT	
		09:00 - 15:00 15:00 - 19:30	COMMERCIAL EXHIBITION	COMMERCIAL EXHIBITION	COMMERCIAL EXHIBITION	COMMERCIAL EXHIBITION	COMMERCIAL EXHIBITION
11:00-19:30	REGISTRATION/ CONFERENCE SECRETARIAT	09:00 - 10:30	OPENING/ PLENARIES AM1	PLENARIES AM1	PLENARIES AM1	PLENARIES AM1	PLENARIES AM1
10:30-13:00	TUTORIALS	10:30 - 11:00	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK
		11:00 - 13:00	AM 2 (22 PARALLEL SESSIONS)	AM 2 (22 PARALLEL SESSIONS)	AM 2 (22 PARALLEL SESSIONS) MATCHMAKING EVENT	AM 2 (22 PARALLEL SESSIONS)	AM 2 (22 PARALLEL SESSIONS)
13:00-14:30	LUNCH	13:00 - 15:00	G3	G1 POSTER SESSION 1	G2	G4 POSTER SESSION 1	LUNCH
		13:00 - 13:00	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
14:30-18:30	TUTORIALS	15:00 - 17:00	PM1 (22 PARALLEL SESSIONS)	PM1 (22 PARALLEL SESSIONS)	PM1 (22 PARALLEL SESSIONS) MATCHMAKING EVENT	PM1 (22 PARALLEL SESSIONS)	PM1 (22 PARALLEL SESSIONS)
		15:00 - 19:30	REGISTRATION/ CONFERENCE SECRETARIAT	REGISTRATION/ CONFERENCE SECRETARIAT	REGISTRATION/ CONFERENCE SECRETARIAT	REGISTRATION/ CONFERENCE SECRETARIAT	
		17:00 - 17:30	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	CLOSING CEREMONY
		17:00 - 19:30	PM2 (22 PARALLEL SESSIONS)	PM2 (22 PARALLEL SESSIONS)	PM2 (22 PARALLEL SESSIONS)	PM2 (22 PARALLEL SESSIONS)	
20:00	WELCOME RECEPTION	20:00		CULTURAL / SOCIAL EVENT			
		21:00			CONGRESS DINNER		

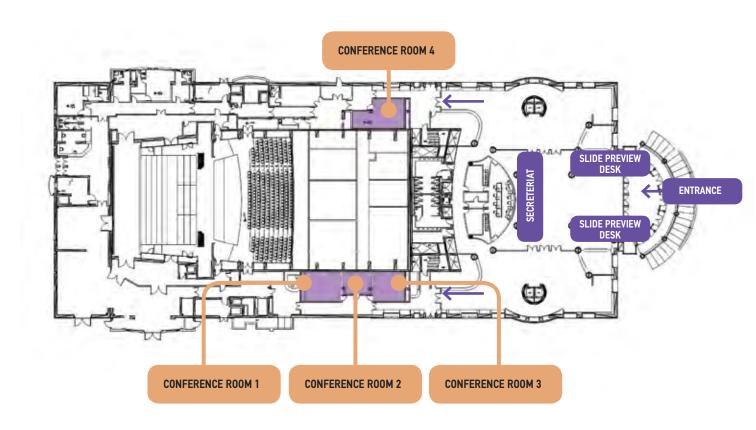
	MOND	AY 18 SEPT	EMBER	TUESI	DAY 19 SEPT	EMBER	WEDNE	SDAY 20 SEP	TEMBER	THURS	DAY 21 SEP	TEMBER	FRIDAY 22	SEPTEMBER
	AM1 Opening Ceremony			AM1			AM1			AM1		A	M1	
			Opening Ceremony Prof. Anna Fontcuberta i Morral				Prof. Oliver Gutfleisch		Pr	of. John Åg	ren	Prof. Luis Liz-Marzán		
	Prof. (FE	Doros Theo MS EMM 20	odorou 017)	Prof. Andrés-Fabián Lasagni (FEMS MSTP 2017)		Prof. (FE	Thierry Ch MS MIM 20	artier 17)	Prof. S	Spyros Pan	telakis	Prof. Dimit	ris Lagoudas	
	AM2	PM1	PM2	AM2	PM1	PM2	AM2	PM1	PM2	AM2	PM1	PM2	AM2	PM1
A1												A1	A1	A1
														A1
A2								A2	A2	A2	A2			
А3	A3	А3	А3	А3										
A5	A5	A5	A5	A5	A 5	A5	A 5	A5	A5					
A6												A6	A6	A6
A7			A7		A 7	A7	A7	A7	A7	A7	A7	A7	A7	
A8	A8	A8	A8	A8										
А9												А9	А9	А9
B1				B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1
ы						B1								
B2	B2	B2	B2	B2	B2	B2	B2	B2	B2	B2	B2	B2	B2	
В3	В3	В3	В3	В3	В3	В3	В3	В3	В3	В3				
B4										B4	B4	B4	В4	В4
B5	B5	B5	B5	B5	B5									
В6					B6	B6	В6							
В7								B7	B7	В7	В7	B7	В7	В7
B8							B8	B8	B8	B8	B8	B8		
В9										В9	В9	В9		
B10	B10	B10	B10	B10	B10	B10	B10	B10	B10		B10			
B11	B11	B11	B11	B11	B11	B11	B11	B11	B11	B11				
C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1
C2	C2	C2	C2	C2	C2									
С3											C3	СЗ	C3	С3
C4							C4	C4	C4	C4	C4	C4	C4	C4
												C5	C5	C5
C5														C5
C6	C6	C6	C6	C6	C6						•			
C7						C7								
C8										C8	C8	C8	C8	C8
C9										С9	C9	C9	С9	C9
C10							C10	C10	C10	C10	C10	C10	C10	C10
C11										C11	C11	C11	C11	C11

	MONE	MONDAY 18 SEPTEMBER		TUESI	DAY 19 SEPT	EMBER	WEDNE	SDAY 20 SEP	TEMBER	THURS	DAY 21 SEP	ГЕМВЕК	FRIDAY 22	SEPTEMBER
	AM1 Opening Ceremony		AM1 AM1				AM1		AM1			A	M1	
			Opening Ceremony Prof. Anna Fontcuberta i Morral		Prof. Oliver Gutfleisch Prof. Thierry Chartier (FEMS MIM 2017)		Prof. John Ågren Prof. Spyros Pantelakis			Prof. Luis	Liz-Marzán			
	Prof. (FE	of. Doros Theodorou Prof. Andrés-Fabián Lasagni FEMS EMM 2017) (FEMS MSTP 2017)		Prof. Dimitris Lagoudas										
	AM2	PM1	PM2	AM2	PM1	PM2	AM2	PM1	PM2	AM2	PM1	PM2	AM2	PM1
D1				D1	D1	D1	D1	D1	D1	D1	D1	D1	D1	D1
D2	D2	D2	D2	D2	D2	D2	D2	D2	D2	D2	D2			
D3							D3	D3	D3	D3				
D4	D4	D4	D4	D4	D4	D4	D4	D4	D4					
D5											D5	D5	D5	
D6										_			D6	D6
D8							D8	D8	D8	D8	D8	D8	D8	
D9	D9	D9	D9	D9	D9	D9	D9	D9	D9					
D10							D10	D10	D10	D10	D10	D10	D10	D10
E1	E1	E1	E1	E1	E1	E1								
E2	E2	E2	E2	E2	E2	E2	E2							
E3	E3	E3	E3	E3	E3	E3	E3	E3	E3					
E4						E4	E4	E4	E4	E4				
E6										E6	E6	E6	E6	E6
F1	F1	F1	F1	F1	F1	F1	_							
F2							F2	F2						
F3									F3	F3	F3			
F4	F4	F4	F4											
F5													F5	
F6											F6	F6	F6	F6
G1					31									
G2							(G2						
G3	G	3												
G4										0	64			
H1	H1	H1	Н1	H1	H1	Н1								
H2	H2	H2	H2	H2	H2									
Н3	Н3	Н3												

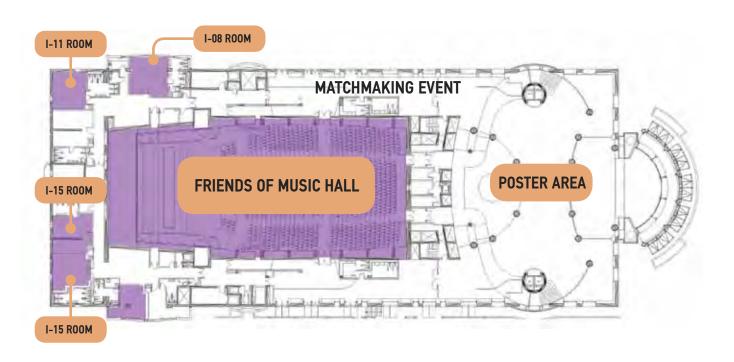
	TIME: 13:00-15:00	ROOM: Foyer, E1/M1		TIME: 13:00-15:00	ROOM: Foyer, E1/M1
POSTER SESSION	l Tuesday, Se _l	otember 19 th , 2017	POSTER SESSION I	I Thursday, Se	ptember 21st, 2017
А3	C1-I	F1	A1	C1-II	E4
A5	C2	F4	A2	СЗ	E6
A6-I	C6	H1	A6-II	C4	F2
A7-I	D1	H2	A7-II	C5	F3
A8	D2	Н3	А9	C8	F5
B2	D4	G1	B1	С9	F6
B3	D10-I	G2	B4	C10	G2
B5	E1		В7	C11	
В6	E2		B8	D3	
B10	E3		В9	D5	
B11			D8	D6	
			D10-II		



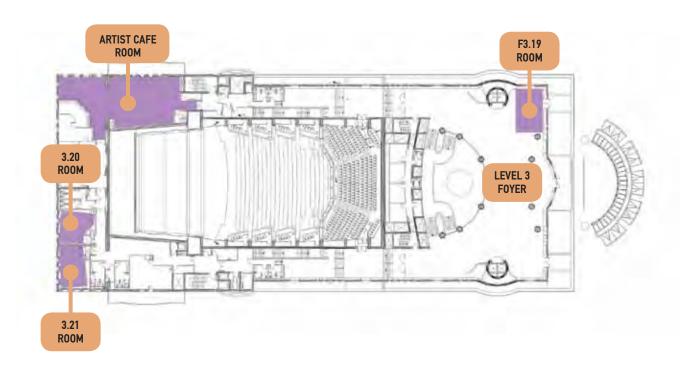
M1 building - level 0



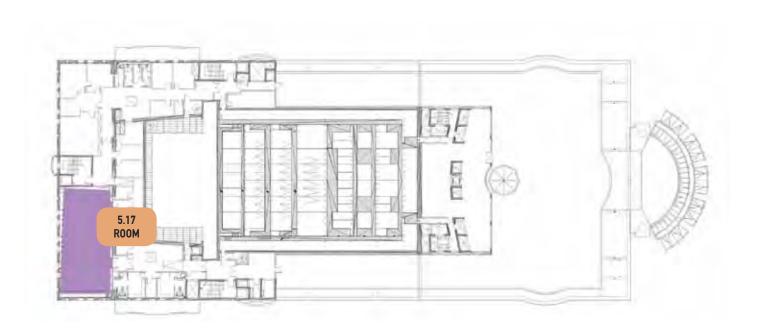
M1 building - level 1



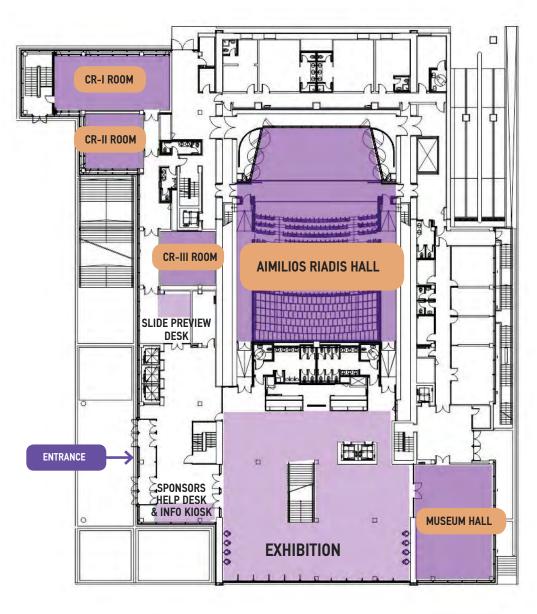
M1 building - level 3



M1 building - level 5

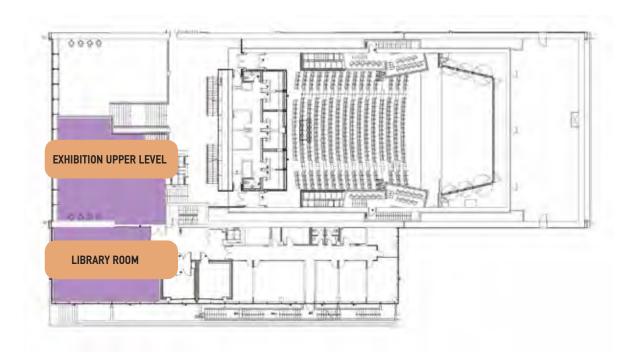


M2 building - level 1

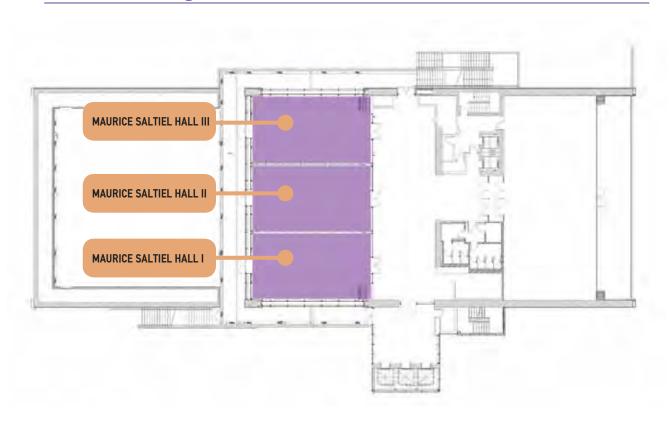


M2 building — level -1 Moysa Hall

M2 building - level 2



M2 building - level 5



Scientific Committee

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Co-chair

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Eric Le Bourhis Poitiers University, FR



Bart Blanpain KU Leuven, BE



Jérôme Chevalier University of Lyon, FR



Hans-Jürgen Christ University of Siegen, DE



Maria Luisa Di Vona University of Rome Tor Vergata, IT



Emmanuel P. Giannelis Cornell University, USA



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Patrice E.A. Turchi Lawrence Livermore National Laboratory, USA



Maria Vallet Regi Universidad Complutense de Madrid. ES



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Konstantinos Giannakopoulos National Center for Scientific Research "Demokritos", GR



Maria Kandyla National Hellenic Research Foundation, GR

Welcome letter

Dear Delegate,

It is our great pleasure to personally welcome you to EUROMAT 2017 in Thessaloniki, the beautiful capital of Macedonia Prefecture in Northern Greece. In the year FEMS (The Federation of European Materials Societies) celebrates its 30th Anniversary, this is the 15th conference in the series of EUROMAT conferences, which are organised under the auspices of FEMS every two years since 1989. These conferences are well recognised internationally as the prime venue in Europe for the gathering of a wide community of academics and industrialists who are active in the field of Materials Science and Engineering (MSE) in Europe and around the world. The EUROMAT 2017 conference is co-organised by two of the 27 FEMS member societies, namely the Hellenic Metallurgical Society (HMS) and the Hellenic Society of the Science and Technology of the Condensed Matter (HSSTCM) both based in Greece.

The conference comprises 57 symposia grouped into 8 areas seven of which cover Functional and Structural Materials, Processing, Characterisation and Modelling, Energy and Environment, Biomaterials and Healthcare, Raw Materials and the eighth that is specifically dedicated to Education and Technology Transfer. All these areas are of great strategic importance for the future and the development of Materials Science and Engineering (MSE). Four topics were selected by The Minerals, Metals and Materials Society – TMS to be organised jointly by TMS and FEMS. This co-sponsoring refers to an agreement between the two societies to explore future cooperative ventures in the organisation of their respective conferences on both sides of the Atlantic Ocean. We look forward to continuing and strengthening this collaboration in future EUROMATs. As part of a reciprocal arrangement FEMS will be organising Symposia at TMS2018 in Phoenix, Arizona. We are grateful to the members of the scientific committee for their perseverance and devotedness to putting in place an outstanding list of symposia for each area of the conference.

Around 2725 abstracts were received from 65 countries by the closure of the deadline for abstract submission. 20% of the abstracts were submitted from outside Europe. Owing to the large number of contributions the committee decided to organise 22 parallel sessions, and to increase the number of oral presentations by 20% per session. This has led to a very intense programme covering a wide scope of subjects in which most recent advances in MST are highlighted.

Strong collaboration with national and international industrial, publishing, and commercial partners is what keeps MSE moving forward worldwide. We welcome the support of EUROMAT 2017 by 40 sponsors and exhibitors, and we are grateful to them for offering educational, networking and promotional opportunities for the conference delegates.

The organisation of the final programme involved the dedicated work of more than 200 experts in different fields that have acted as symposium organisers and co-organisers. On behalf of all the participants of the conference we express our sincere thanks to all of them for their hard work, leadership, commitment and enthusiasm to honour their tasks. Without their valuable commitment to deal with the high number of abstracts, the straightforward organization of the scientific programme would not have been possible.

The conference programme integrates approximately 1,850 oral presentations and 875 posters, the latter presented during two poster sessions. The conference starts on Sunday afternoon with 4 selected tutorials that address recent developments in emerging fields in MSE and start-ups. We have also organised what we hope will be an enjoyable social programme to accompany this conference to give you a flavour of Greece.

Following the practice of EUROMAT conferences, no general proceedings will be published for the whole conference. Some symposia organizers have arranged to have the papers of their symposium, or a sub-set of them, published after the conference in a special issue of a journal. The conference information including the titles, authors and abstracts submitted to the conference can be found on the USB stick within your delegate pack.

The programme is particularly highlighted by nine plenary lectures given by renowned researchers from the MSE community. The first plenary lecture will be given during the Monday opening session by Professor Doros Theodorou, who is the recipient of the FEMS European Materials Medal 2017. This is a recognition FEMS makes every year to some of the most active researchers in MSE. Five other senior and young scientists awarded last year with the Materials Innovation Prize, the Materials Science and Technology Prize, and two FEMS lecturers' prizes will also be given the opportunity to make relevant presentations at the conference.

All the tasks associated with such a large and complex conference are run under the direction of the managing committee. We are grateful for their continuous support.

We would like to thank each one of you for attending EUROMAT 2017 and bringing your research to the attention of the MST community. Throughout this conference, we ask you to stay engaged and proactive.

Our personal respect and thanks goes out to all of you.

Enjoy the conference, enjoy Thessaloniki.

Panos Tsakiropoulos (Chair, Scientific Committee)

Anna Zervaki (Chair, Managing Committee) Brett Suddell (FEMS President)

est Side

FEMS Awards



FEMS European Materials Medal 2017 Prof. Doros N. Theodorou National Technical University of Athens, GR

Doros Theodorou holds a Diploma from the National Technical University of Athens, NTUA (1982), M.S. (1983) and Ph.D. (1985) degrees from M.I.T., all in Chemical Engineering.

He started his academic career at the University of California, Berkeley, where he became full professor in 1994. In 1995 he relocated to Greece, where he taught at the University of Patras and collaborated with ICE/HT-FORTH and NCSR "Demokritos". Since 2002 he has been professor and director of the Computational Materials Science and Engineering group at NTUA. Professor Doros Theodorou is known for his pioneering work in developing new statistical mechanics-based molecular and multiscale simulation methods for the calculation of thermodynamic, structural, mechanical, rheological, interfacial, and permeability properties of polymeric materials, as well as of sorption and diffusion in zeolites.

Recognitions he has received include the NSF Presidential Young Investigator Award (1988-1992), the Science Award of the Bodossakis Foundation in Chemistry (1996), the Danckwerts Lectureship of the AIChE (2006), the D. Medema Award of the Dutch PTN (2009), the John M. Prausnitz award of PPEPPD (2016), and the AIChE Institute Lecture (2016). In 2015 he was elected member of the U.S. National Academy of Engineering.



FEMS Materials Innovation Medal 2017 Dr. Thierry Chartier Science des Procédés Céramiques et de Traitements de Surface (SPCTS), Limoges, FR

Thierry Chartier is Research Director and Head of the "Science of Ceramic Processes and Surface Treatments" CNRS Laboratory, Limoges, France. He received an engineers' degree from ENSCI, and an MSc in Ceramic Materials and Surface Treatments from the Univ. of Limoges (1982). He obtained his Ph.D. in 1985 concerning the relationship between elaboration-microstructure and properties of SiAlON.

His main research interests are ceramic processing with the understanding of fundamental mechanisms that take place during materials transformations. His current research concerns additive manufacturing which opened new additive routes in ceramics and lead to the creation of two start-ups (Ceradrop and 3Dceram). These processing developments have applications in healthcare, SOFC and catalytic membranes and a common lab has been established between CNRS and Air Liquide to pursue this research.

T. Chartier is the author/co-author of 170 reviewed papers and 38 patents. He was chairman of the 13th conference of the ECerS held in Limoges in 2013. He is member of the World Academy of Ceramics, Fellow of the European Ceramic Society. He received the "Chaudron" award from SF2M (2011) and the JECS Trust Award (2015).



FEMS Materials Science and Technology Prize 2017 Prof. Andrés-Fabiàn Lasagni Technische Universität Dresden, DE

Andrés F. Lasagni received his M.S. degree in 2002 in Chemical Engineering from Comahue National University (Argentina). From 2003 to 2005 he carried out his PhD at the Universität des Saarlandes (Germany) and in 2007-2008 he conducted a postdoctoral stay at the Georgia Institute of Technology and the University of Michigan. Since 2008 he was group leader at the Fraunhofer IWS and since 2012 is professor at the Technische Universität Dresden (Germany). Andrés Lasagni is author and coauthor of more than 150 publications and has been awarded several prizes including the German High Tech Champion in Photovoltaics 2011 from the Ministry of Education and Research (BMBF), the Green Photonic Award 2015 from the International Society for Optics and Photonics (SPIE), the Masing-Gedächtnispreis 2012 from the German Society for Materials Science (DGM) and Fritz-Grasenick-Prize from the Austrian Society for Electron Microscopy. Recently, he has received the Reinhart-Koselleck Grant (1.3 M€) from the German Research Foundation (DFG) to enable outstanding researchers to pursue exceptionally innovative or higher-risk projects.



TMS – FEMS Young Leader International Scholar Program Dr. Mohsen Asle Zaeem Missouri University of Science and Technology, Rolla USA

Mohsen Asle Zaeem is the Roberta and G. Robert Couch Assistant Professor of Materials Science & Engineering at Missouri University of Science & Technology. Dr. Zaeem received his B.S. (2003) and M.S. (2006) in Mechanical Engineering from Shiraz University, Iran, and his Ph.D. in Mechanical Engineering from the School of Mechanical and Materials Engineering at Washington State University (2010).

Dr. Zaeem has published more than 45 peer-reviewed journal articles, and he is currently serving as an editor of the Journal of Metals, and he is also a member of the editorial board of Mathematical Problems in Engineering and International Journal of Materials Engineering and Technology. Dr. Zaeem is a member of different technical committees of TMS, including Computational Materials Science and Engineering, Solidification, Phase Transformation, and Young Professionals Committees.

Dr. Zaeem is the recipient of 2016 Faculty Research Excellence Award of Missouri S&T, 2016 Certificate of Highly Cited Research in Computational Materials Science (Elsevier), 2015 Certificate of Excellence in Reviewing from Acta Materialia, 2015 TMS Young Leader Professional Development Award, 2015 Junior Faculty Award from Mines and Metallurgy Academy, and 2015 ACS New Investigator Award.



FEMS Lecturer Award for Excellence in Materials Science and Engineering 2016-2017 Prof. Jonathan Cormier ISAE-ENSMA, Chasseneuil, FR

Jonathan Cormier, associate professor at ISAE-ENSMA (Futuroscope-Chasseneuil, France) since 2007, has an aeronautical engineering degree from ISAE-ENSMA, with specialization in mechanics of materials. He obtained his PhD degree in 2006 from the University of Poitiers on the non-isothermal creep behavior of a Ni-based single crystal superalloy for turboshaft-engine for helicopter applications.

His main area of research focuses on high temperature materials, especially Ni-based superalloys and their coatings, with a special emphasis on the impact of microstructure evolutions on their mechanical behavior and durability. He has both an experimental and constitutive modeling research activity. He has published 92 articles since 2005, 60 of them in internationally peer-reviewed journals.

He won the Jean Rist Medal in 2015 from SF2M (French Society of Metals and Materials) and the best paper awards at the Eurosuperalloys 2014 (Giens, France) and Superalloys 2016 (Seven Springs, PA, USA) conferences. Since September 2016 he is editor of the Metallurgical and Materials Transactions A journal.



FEMS Lecturer Award for Excellence in Materials Science and Engineering 2016-2017 Dr. David Maestre Varea Universidad Complutense de Madrid, ES

David Maestre Varea is an Associate Professor at the Materials Physics Department, Universidad Complutense de Madrid. He is a member of the Physics of Electronic Nanomaterials Group (FINE), a research group focused on the study of semiconductor and electronic nanostructures with the aim to investigate their structure, morphology and physical properties. He attained his PhD from the Universidad Complutense de Madrid in 2007 and worked as post-doc at the Paul Cézanne-Aix Marseille III Université (Marseille, France) and at the Christian Albrechts Universität (Kiel, Germany) where he got insights in areas of research related to photovoltaics and electronic microscopy.

Recently he has focused on the fabrication and characterization of semiconducting oxide micro- and nanostructures based on SnO2, TiO2 and In2O3. He has published more than 50 manuscripts and 2 chapters of books and invented 4 patents, two of them finalists at the "Emerging Technologies Competition, Royal Society of Chemistry 2015". He received the "Fonda Fasella Award 2011".

Organizing Societies

Professional Congress Organizer



Hellenic Metallurgical Society

www.met.gr



Hellenic Society for the Science and Technology of Condensed Matter (HSSTCM) - www.hsstcm.eu

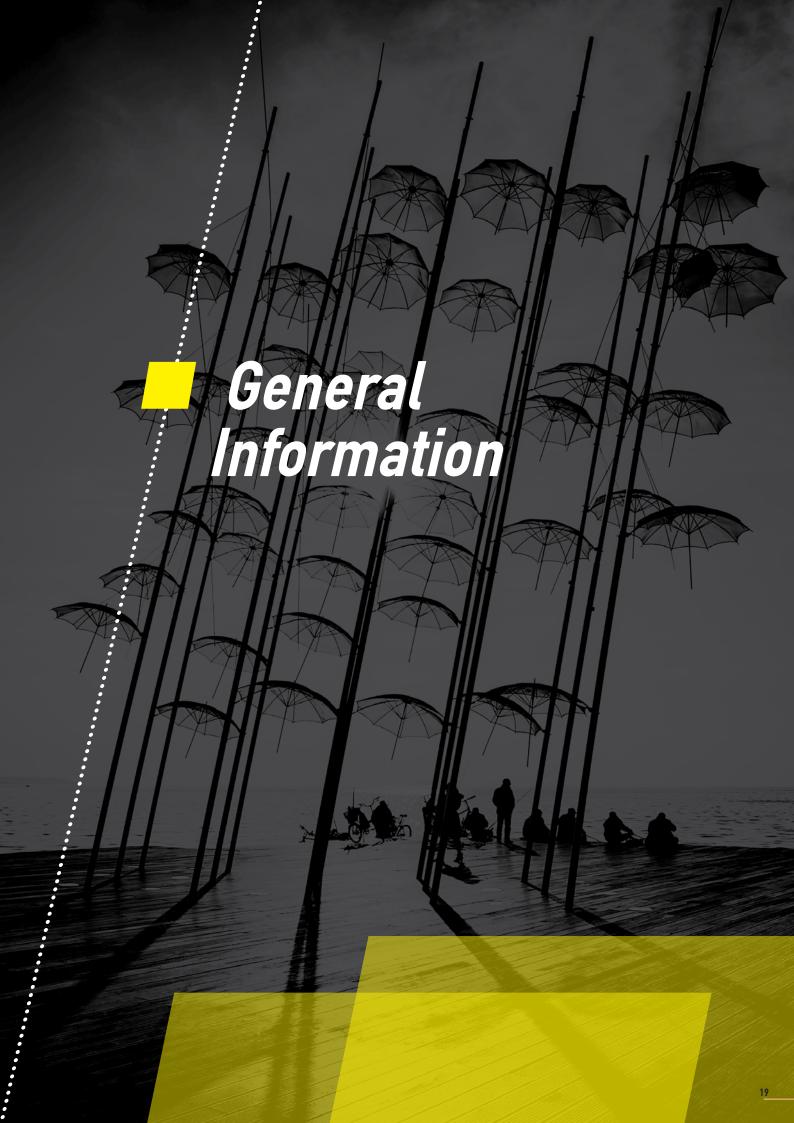




Travel and Congress Services

Professional Congress Organizer (PCO) AFEA S.A. Travel & Congress Services 39-41 Lykavittou Street

10672 Athens, Greece Tel.+30 2103668853-54 Fax: +30 2103643511 email: euromat2017@afea.gr



Congress Dates: 17-22 September, 2017

Congress Venue:

Thessaloniki Concert Hall Convention and Cultural Center

25 Martiou Str. & Paralia, Thessaloniki 546 46 - www.tch.gr

The Thessaloniki Concert Hall is just a seventeen-minute drive (14 km) from Thessaloniki International Airport "Makedonia", and is an important centre for performing arts in Thessaloniki, Greece. The complex consists of two main buildings: M1, with a 1,500-capacity auditorium; and M2, designed by the renowned architect Arata Isozaki. The hall is functionally designed to accommodate the needs of disabled people. Since its official opening in 2000, it has held numerous events, concerts, and conferences.

How to reach the venue:

BY BUS

The Thessaloniki Concert Hall stands 100 meters from the Georgiou bus stop where buses 5, 6, 8, 33 stop and 200 meters away from Martiou bus stop, where buses 30 & 78 stop.

www.oasth.gr

BY TAXI

There is a taxi stand right outside the Concert Hall, where taxis are available.

Congress Mobile APP

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- Personal agenda planning
- Sponsors & Exhibition
- Congress venue floor plans
- Information about Thessaloniki

Congress Secretariat

The Congress Secretariat is located at the foyer of the M1 building and will be operating from September 17th to 22nd, 2017.

Operating hours					
Sunday, 17 September 2017	09:00 - 20:00				
Monday, 18 September 2017	08:00 - 19:30				
Tuesday, 19 September 2017	08:00 - 19:30				
Wednesday, 20 September 2017	08:00 - 19:30				
Thursday, 21 September 2017	08:00 - 19:30				
Friday, 22 September 2017	08:00 - 1 <i>7</i> :30				

Exhibition

The Congress Exhibition is located at the M2 building and will be operating from September 18th to 22nd, 2017.

Operating hours					
Monday, 18 September 2017	09:00 - 19:30				
Tuesday, 19 September 2017	09:00 - 19:30				
Wednesday, 20 September 2017	09:00 - 19:30				
Thursday, 21 September 2017	09:00 - 19:30				
Friday, 22 September 2017	09:00 - 17:30				

Congress material

Badges and Congress material will be provided to all registered participants by the Congress Secretariat. Congress badges are mandatory for admission and access to the meeting halls and exhibition, as well as all congress functions. Please wear your badge visibly at all times. Security guards or support personnel might ask you to make your badges visible. Remember to take it off when in the city.

Certificate of attendance

A certificate of attendance will be available to all registered participants for printing, at www.euromat2017.fems.org Kindly note that Certificates of attendance will be released upon completion of the event.

Language

The official language of the congress is English. No simultaneous translation will be provided.

Internet access

Wireless internet access is available free of charge within the Congress venue. Please consult the Congress Secretariat Desk for further information and access code.

Awards

A competition for the Best Oral Award and Best Poster Award per Scientific Area (with the exception of Area G) will run throughout the days of EUROMAT conference. All participants will have the option to vote for the best oral and the best poster presentation and the winners will be announced during the Awards session of Friday 22/09/2017.

Speakers Preview Desk

A Speakers Preview Desk is located at the M1 building, level 0 & at the M2 building, level 0.

Operating hours						
Sunday, 17 September 2017	11:00 – 20:00					
Monday, 18 September 2017	08:00 - 19:30					
Tuesday, 19 September 2017	08:00 - 19:30					
Wednesday, 20 September 2017	08:00 - 19:30					
Thursday, 21 September 2017	08:00 - 19:30					
Friday, 22 September 2017	08:00 - 17:30					



Useful Information for Oral presentations

Information for presenters

It is highly recommended that all the speakers upload their presentation files (USB or CD) at the Speaker Preview desk (M1/Level O), at least one day and at the latest three hours before their presentation. Presentations will be distributed and projected to the meeting rooms via a central computer system. All meeting rooms are equipped with a laptop and an LCD Projector. Kindly note that the use of a personal laptop or/and any other device is not recommended and it is upon the speaker's responsibility. As a reminder, VHS videos, 35 mm slides, overhead projection (transparencies etc.) will not be available.

Important notes & recommendations

- All presentations must be in English
- Authors are expected to present their paper in person at the congress; in any other case, the congress organizers should be informed in advance
- All presenters/speakers are kindly requested to check their presenting room and be there at least 15 minutes before the session begins. The presenters are kindly asked to present themselves to the Session Chair Each presentation should not exceed the time allocated. Keeping to the time limit is crucial to allow delegates to move from one session to another

Useful information for Chairpersons

You are kindly requested to:

- Keep the session to the time allocated
- Give short introductions on the speakers and the papers to be presented
- Facilitate discussion by asking a number of pertinent questions for each one of the papers, if necessary
- Keep the discussion brief and relevant
- Be in the room 10 minutes before the session begins and introduce yourselves to the speakers
- Check speakers' names, titles and affiliations
- Start & end on time. Always should grant time for floor discussion
- Hold each speaker to the allocatted time
- If a presenter ends early or does not attend, please use that extra time for questions and remarks from the audience, the panel, or yourselves. Please make sure that the following presentation doesn't start earlier than scheduled
- In floor discussion, it is recommended that you ask participants to introduce themselves, by saying their name, country and institution and repeat the questions, to be sure that they are heard by everyone in the audience

Useful Information for Poster presentations

Poster Presentations

The Poster Area is located at the foyer of the M1 building (+1 level). Poster reference numbers will be displayed at the top of the poster boards. Participants are kindly requested not to remove or change the numbers. The Congress Secretariat is not responsible for material left behind, lost, damaged or stolen. Authors are responsible for mounting/removing their posters, according to the below respective information.

Poster Session I

Poster Session I, is scheduled on Tuesday, September 19, 2017 at 13.00-15.00 All authors whose posters are accepted to Poster Session I, should mount their poster on Tuesday, September 19, 2017 at 08.00-09.00 and remove them on Wednesday, September 20, 2017, by the end of the day.

Poster Session II

Poster Session II, is scheduled on **Thursday, September 21, 2017** at **13.00-15.00** All authors whose posters are accepted to Poster Session II, should mount their poster on **Thursday, September 21, 2017** at **08.00-09.00** and remove them by the end of the day.

Green Policy

In maintaining a high standard of environmental awareness and compliance, Euromat 2017 follows a Green Policy.

Euromat 2017 is designated non-smoking.

Euromat 2017 has reduced the amount of printed material that is distributed at the Congress, but continues to print material considered essential for the effective organization or communication of the event. Although, Euromat 2017 still has a printed final program, previously printed material has been replaced by online information on the congress website, the congress application and a USB.

Liability and insurance

The Organizers accept no liability for any personal injury, loss or damage of property or additional expenses incurred to Congress participants, either during the Congress or as result of delays, strikes, or any other circumstances. Participants are requested to make their own arrangements with respect to health and travel insurance.

Catering services

Coffee breaks will be served at the foyer of buildings M1 & M2:

Monday, Tuesday, Wednesday, Thursday, Friday: 10:30-11:00

Monday, Tuesday, Wednesday, Thursday: 17:00-17:30

Lunches will be served at the foyer of buildings M1&M2:

Monday, Tuesday, Wednesday, Thursday, Friday: 13:00-14:30

Social Events

Welcome reception

Date: September 17, 2017

Time: 20:00

At Thessaloniki Concert Hall Convention and Cultural Center

Included in the registration fee



and finding out more about the Institute of Materials, Minerals and Mining (IOM3).











http://bit.ly/2timcwm





Cultural event

Date: Wednesday, September 20, 2017 Time: 21:00

Time: 20:00

At Thessaloniki Concert Hall Convention and Cultural Center

Special dedicated concert held by the Symphony Orchestra of the Municipality of Thessaloniki

The Symphony Orchestra of the Municipality of Thessaloniki was founded in 1987. Its first name was "Municipal Orchestra" and its first artistic director was Cosmas Galileas. The Orchestra is comprised by talented and renowned musicians and participates dynamically in the musical world of the city, giving concerts in Thessaloniki, as well as all over Greece and abroad. Since July 1993 and for five consecutive years, the Orchestra's artistic director was the conductor Dimitris Agrafiotis and right after him, until 2005, the conductor Byron Fidetzis. Today, the Orchestra is directed by the conductor Haris Iliadis.

During all these years, the Symphony Orchestra had the joy and the honor to work with outstanding soloists and conductors, such as: D. Sgouros, G. Demertzis, L. Kavakos, M. Tirimos, Y. Vakarelis, K. Katsaris, F. J. Sellheim, I. Ionescu - Galati, R. Moog, I. Oistrakh, R. Syracuse, V. Tretiakov, K. Kelly, G. Schuller, C. Studer, P. Badura – Skoda, and others.

Gala Dinner

Gala Dinner

Date: Wednesday, September 20, 2017

Time: 21:00

At Makedonia Palace Hotel Price per person: 70 € Not included in the registration fee Dress code: Elegant smart casual

Local Information & facilities

City Info

For further information about Thessaloniki, please visit the City Desk (Thessaloniki Tourist Office), which will be located at the congress venue.

Electricity

Greece uses 220V alternating current. Plugs and sockets are European standard with two round pins.

Currency

Greece is a member of the Eurozone and euro is the official currency. You can buy euros from banks, exchange offices in the city center and the airport "Makedonia", while foreign exchange services are offered in many hotels. The opening hours of banks accepting foreign currency are:

Monday-Thursday: 8:00 -14:30 & Friday: 8:00 -13:30.

Time Zone

Thessaloniki, like the rest of Greece, belongs to the Eastern European Time Zone and is two hours ahead of Greenwich Mean Time (GMT +2). Like most European countries, Thessaloniki implements daylight saving time.

Wi-Fi Hot Spots

The Municipality of Thessaloniki offers the possibility of free wireless internet access from mobile devices such as smartphones, tablets, laptops in places of economic, tourist, and social interest of the city.

The free wireless access points are: Mina Patrikiou Square

Municipal Swimming Pool

Floricultural park

New City Hall

Tsimiski Avenue – Angelaki Street

Entrance of Thessaloniki International Fair (TIF)

N.Germanou Street - Entrance of the Municipal **Garden Theatre**

Society for Macedonian Studies

White Tower Square

Romfei square

Aristotle Square

Useful Phone Numbers

Thessaloniki area code (30) 2310

European Emergency 112

Police 100

Tourist Police (+30) 2310554874

199 **Fire Department**

Ambulance 166

Port Authority (+30) 2310593134

Traffic Police (+30) 2310250740

Railway Customer Service

Centre

14511

Urban Transportation 11085

Intercity coaches (+30) 2310595400

TAXI 18300, 18180, 18288

Airport (+30) 2310985000





	FUNCTIONAL MATERIALS - Area Coordina	tor: Emmanouel Giannelis
	SYMPOSIUM	ORGANIZERS
A1	CARBON-BASED NANOMATERIALS	Eric Anglaret, Vladimir Falko Costas Galiotis, Maurizio Prato
A2	INNOVATIONS IN FUNCTIONAL NANOMAGNETS	Makis Angelakeris, Michael Farle Panagiotis Poulopoulos, Radek Zboril
A3	FUNCTIONAL POLYMERS AND RELATED (NANO)COMPOSITES	Jean-François Gerard, Philippe Dubois, Ton Peijs
A5	COLLOIDAL NANOPARTICLES: SYNTHESIS, FUNCTIONALIZATION AND APPLICATIONS	Antonios G. Kanaras, Wolfgang Parak, Liberato Manna, Catherine Dendrinou Samara
A6	ADVANCED MATERIALS FOR SPACE EXPLORATION	George Vekinis, Barrie Dunn
A7	FUNCTIONAL NANOMATERIALS FOR NOVEL APPLICATIONS	Paloma Fernàndez-Sanchez, Ana Cremades Oliver Rader, Peter Schaaf
A8	MATERIALS BY DESIGN	Julien Varignon, Nicholas C. Bristowe
A9	FUNCTIONAL MEMBRANES	Volker Abetz, Katja Loos

	SYMPOSIUM	ORGANIZERS
B1	OVAKO ADVANCED HIGH STRENGTH STEELS	Wolfgang Bleck, Francisca Caballero Ronald Schnitzer
B2	LIGHT WEIGHT METALS	Michele V. Manuel, Norbert Hort, Alan Luo, Eric Nyberg, Mathieu Brochu, Frank Monheillet
B3	HIGH-TEMPERATURE ALLOYS	Srdjan Milenkovic, Shigehisa Naka
B4	ADVANCED PROPERTIES OF SPD-PROCESSED METALLIC MATERIALS	Heinz Werner Höppel, Andrea Bachmaier Anton Hohenwarter
B5	ADVANCED CERAMICS	Thomas Graule, Jerzy Tadeusz Lis Athena Tsetsekou, Dariusz Kata
B6	ADVANCED COMPOSITES	Aravind Dasari, Bodo Fiedler
B7	HYBRID AND METAL ORGANIC FRAMEWORK (MOF) MATERIALS	Bartolomeo Civalleri, Jin-Chong Tan
B8	HIGH ENTROPY ALLOYS AND COMPOSITIONALLY COMPLEX ALLOYS	Glatzel Uwe, Easo George
B9	BULK METALLIC GLASSES	Jürgen Eckert, Jörg F. Löffler
B10	FATIGUE, WEAR AND CORROSION OF MATERIALS AND STRUCTURES	Georgios Savaidis Michael Vormwald, Wolfram Fürbeth
B11	MECHANICAL PROPERTIES AND MICROSTRUCTURE	Tilmann Beck, Frank Walther

	PROCESSING – Area Coordinator: Nikolaos Michailidis							
	SYMPOSIUM	ORGANIZERS						
C1	COATINGS AND SURFACE MODIFICATION TECHNIQUES	Elias Aperathitis, Albano Cavaleiro Rainer Cremer, Ru Lin Peng						
C2	LASER-BASED PROCESSING AND MANUFACTURING	Robert Eason, Andrés F. Lasagni Römer Gert-willem, Ioanna Zergioti						
СЗ	POWDER ROUTES: FROM SYNTHESIS TO PROCESSING	Claude Estournès, Christophe L. Martin						
C4	ADDITIVE MANUFACTURING	Ugo Lafont, Alberto Molinari Sebastian Piegert, Eduard Hryha						
C5	INTERFACE DESIGN AND MODELLING, WETTING AND HIGH-TEMPERATURE CAPILLARITY	Simeon Agathopoulos, Fabrizio Valenza						
C6	JOINING	Ivan Kaban, Christof Sommitsch						
C7	STEEL MAKING	Johannes Schenk, Spyros Papaeftymiou						
C8	SOLIDIFICATION, CASTING, FOUNDRY AND LIQUID METAL PROCESSING	Alexandros Karantzalis, Andrew Kennedy						
C9	MANUFACTURING PROCESSES	K.D. Bouzakis, Luca Settineri						
C10	THERMOMECHANICAL PROCESSING, SEVERE PLASTIC DEFORMATION AND NANO-STRUCTURING	G. Angella, T. Grosdidier J. Ivanisenko, M. Krzyzanowski						
C11	PROCESSES AND MATERIALS FOR NANOELECTRONICS	Dimitris Tsoukalas, Marco Fanciulli, Alain Claverie						

AREA D

	CHARACTERIZATION AND MODELLING - Area Coordina	ntors: Eric Le Bourhis & Sotirios Ves
	SYMPOSIUM	ORGANIZERS
D1	MATERIALS SCIENCE WITH SYNCHROTRON RADIATION X-RAYS	Federico Boscherini Maria Katsikini, Peter D. Lee
D2	NANOSCALE MATERIALS CHARACTERIZATION AND MODELING BY ADVANCED MICROSCOPY METHODS NanoMEGAS	Thomas Walther, Georgios Dimitrakopulos Stawomir Kret, Georgios Fourlaris
D3	MATERIALS AT EXTREME CONDITIONS: STATIC OR DYNAMIC COMPRESSION COMBINED OR NOT WITH LOW OR HIGH TEMPERATURES	Jean Paul Itié John Arvanitidis, Ilias Zouboulis
D4	SMALL SCALE MECHANICS, FRACTURE, INTERFACE, EXPERIMENTS AND MODELING	Christophe Pinna, Eric Le Bourhis
D5	APPLICATION OF ICME PRINCIPLES IN THE DESIGN OF STRUCTURAL MATERIALS	Ulrich Prahl, Ernst Kozeschnik Javier Llorca, Yu Zhong

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AREA D

CHARACTERIZATION AND MODELLING - Area Coordinators: Eric Le Bourhis & Sotirios Ves **SYMPOSIUM ORGANIZERS** MULTI-LENGTH-SCALE INNOVATIONS IN DAMAGE Bernard Normand, Ellen Cerreta FEMS : TIMIS EVOLUTION IN MATERIALS: CHARACTERIZATION, George T Gray III, Damien Féron MODELING, AND VALIDATION AB INITIO MODELS FOR THERMODYNAMIC AND D8 Sergei Dudarev, Martin Friak **ELASTIC PROPERTIES OF ADVANCED MATERIALS** QUALIFICATION AND MODELLING OF STRUCTURAL AND Lorenzo Malerba, Marjorie Bertolus D9 FUEL MATERIALS FOR SUSTAINABLE NUCLEAR REACTORS Jana Kalivodovà Karakasidis Theodoros, Kalliadasis Serafim MULTISCALE MODELING OF MATERIALS Koumoutsakos Petros, Tserpes Konstantinos Schmauder Siegfried

A E	ENERGY AND ENVIRONMENT- Area Coordinators: Maria Luisa Di Vona & Emmanuel Giannelis		
AREA E	SYMPOSIUM	ORGANIZERS	
E1	HYDROGEN PRODUCTION, CONVERSION, AND STORAGE	Maria Luisa Di Vona, Bogdan Kuchta Ioannis Kallitsis, Toshiyuki Mori	
E2	BATTERIES AND SUPERCAPACITORS	Philippe Knauth, Isabella Nicotera Alan V. Chadwick, Jean Scoyer	
E3	MATERIALS FOR ENERGY HARVESTING	Spyros Diplas, Theodora Kyratsi Truls Norby, Paul R. Ohodnicki Amit Pandey, Monica Della Pirriera Susan Schorr, Joäo Manuel de Almeida Serra, Jianwu Sun	
E4	MATERIALS FOR NUCLEAR ENERGY (FUSION, FISSION)	Thierry Angot, Christian Grisolia Dirk Engelberg	
E6	ADVANCED MATERIALS FOR TRANSPORT APPLICATIONS	Dirk Lehmhus, Axel von Hehl Rene Alderliesten, Kambiz Kayvantash Jörg Hohe, Joachim Hausmann	

***EKSPLA**

A DEA E

BIOMATERIALS AND HEALTH CARE- Area Coordinators: Jérôme Chevalier and María Vallet-Regí **SYMPOSIUM ORGANIZERS** Antonio Salinas, Aldo Boccaccini Chiara Vitale-Brovarone F1 BIOMATERIALS FOR TISSUE ENGINEERING Katharina Schmidt Bleek Didier Letourneur Miguel Manzano, João Mano F2 BIOMATERIALS FOR THERAPEUTIC DELIVERY Maria Vallet-Regi Alejandro Baeza Daniel Ruiz-Molina NANOBIOMATERIALS AND NANOTECHNOLOGY FOR IMPLANTS, F3 **DEVICES AND THERANOSTICS** Maria Vallet-Regi THE NEXT GENERATION OF IMPLANTS WITH MULTI-FUNCTIONAL PROPERTIES: Aldo Boccaccini, Pieter Cools F4 ADVANCED SYNTHESIS, PROCESSING AND SURFACE MODIFICATION METHODS Laurent Gremillard, Paola Palmero FOR BIOMATERIALS Jérôme Chevalier, Hakan Engqvist Tobias Fuederer, Christophe Marquette Corrado Piconi TRANSLATION OF BIOMATERIALS RESEARCH TOWARDS F5 INNOVATION AND PRODUCT DEVELOPMENT: FROM CONCEPTS TO CLINIC

Peter Fratzl, Julian Jones

Sylvain Meille, Eduardo Saiz

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A G	EDUCATION AND TECHNOLOGY TRANSFER - Area Coordinator: Heinrich Hofmann		
AREA	SYMPOSIUM	ORGANIZERS	
G1	COMPETENCES AND BASIC KNOWLEDGE IN THE ICT ER	Paloma Fernàndez -Sanchez	
G2	KEY MATERIAL FIELDS FOR MODERN CURRICULA	H.M. Polatoglou Mébarek Alouani, Michael Finnis	
G3	CRITICAL MATERIALS IN DESIGN, MANUFACTURING AND RECYCLING	Margarethe Hofmann	
G4	TRANSFERABLE SKILLS FOR MASTERS AND PHD's IN MATERIAL SCIENCE	Heinrich Hofmann, Emmanuel Giannelis	

BIO-INSPIRED MATERIALS: FROM STRUCTURAL MATERIALS

TOWARDS MULTI-FUNCTIONAL BIOMATERIALS

= 1		RAW MATERIALS - Area Coordinators: Bart Blanpain & Patrice Turchi			
ב ב ב		SYMPOSIUM		ORGANIZERS	
	H1	TIMIS	CRITICAL MATERIALS: IMPACT ON NEAR-TERM ADVANCED ENERGY TECHNOLOGIES	Orlando Rios, P. E. A. Turchi Iver Anderson, Steve Constantinides Roderick Eggert	
	H2		SUSTAINABLE PRODUCTION OF (CRITICAL) MATERIALS	Dimitrios Panias Mishra Brajendra, Guo Muxing	
	НЗ	@ Planel Address	MATERIALS LIFE CYCLE APPROACH AND FLOW ANALYSIS	Margarethe Hofmann-Amtenbrink, Alessandra Hool, Roland Gauß Guido Sonnemann	





MONDAY 18 SEPTEMBER 2017		TIME : 09:00
ROOM:	Friends of Music Hall/M1	
CHAIRPERSON:	Panos Tsakiropoulos, Anna Zervaki, Brett Suddell	

MONDAY 18 SEPTEMBER 2017		TIME: 09:00-10:30
R00M:	Friends of Music Hall/M1	
CHAIRPERSON:	Brett Suddell	

OPENING CEREMONY

FEMS European Materials Medal 2017



Prof. Doros N. Theodorou
School of Chemical Engineering
National Technical University of Athens, Greece

"Molecular Modeling of Materials: Promises, Challenges, and Impact"

Molecular-based approaches for understanding and tailoring structure-propertyprocessing relations in materials, based on the fundamental principles of quantum and statistical mechanics, have gained ground in academic research and industrial practice. They have been greatly aided by an unprecedented growth in computer power, but also by new, efficient theoretical and computational methods and algorithms. The broad spectra of length and time scales governing structure and dynamics in real-life materials have demanded the advancement of multiscale modeling strategies, involving more than one levels of representation, to bridge atomistic constitution and interactions with macroscopic properties. In this talk we will discuss examples of molecular modelling of polymeric and nanostructured materials, addressing questions such as: How can we push the frontiers of predictability by appropriate design of multiscale theoretical and simulation approaches? Can computational high-throughput screening guide experimental efforts towards the development of new materials? What is the impact of materials modelling in industrial environments?

TUESDAY 19 SEPTEMBER 2017		TIME: 09:00-10:30
R00M:	Friends of Music Hall/M1	
CHAIRPERSON:	Panos Tsakiropoulos	

TUESDAY 19 SEPTEMBER 2017		TIME: 09:00-10:30
R00M:	Friends of Music Hall/M1	
CHAIRPERSON:	Brett Suddell	

FEMS Materials Science and Technology Prize 2017



Prof. Anna Fontcuberta i Morral
Laboratory of Semiconductor Materials
Ecole Polytechnique Federale
De Lausanne, Switzerland



Prof. Andrés-Fabiàn Lasagni
Institute for Manufacturing Technology
TU Dresden, Germany
Fraunhofer-Institut für
Werkstoff-und Strahltechnik IWS,
Dresden, Germany

"Semiconductor nanowires for next generation photovoltaics"

Semiconductor nanowires are filamentary crystals with a diameter in the range between few and hundred nanometers. Their special morphology and small size has inspired new applications and fundamental studies. In this talk we will present state-of-the-art and perspectives of III-V nanowires and related heterostructures in terms of growth and their application in photonic, quantum science and energy harvesting devices [1]. We will address the challenges of growing this kind of structures on silicon substrates and provide a path for reproducible growth of high quality structures [2-4].



Figure 1. Scanning electron micrographs of ordered GaAs nanowire arrays obtained on a (111) silicon substrates for different growth times. The scale bar represents one micrometer[4].

"Bridging the gap between high resolution laser structuring and high throughput using Direct Laser Interference Patterning"

Starting from a simple concept, transferring the shape of an interference pattern directly to the surface of a material, the method of Direct Laser Interference Patterning (DLIP) has been continuously developed in the last 20 years. From lamp pumped to high power diode-pumped lasers, DLIP permits today for the achievement of impressive processing speeds, even close to 1 mC/min. The objective: to improve the performance of surfaces by the use of periodically ordered micro and nanostructures. This study describes the advances performed in the DLIP method, with the objective of bringing this technology to real industrial applications. From the structuring of thin metallic films to bulk materials using nano- and picosecond laser systems, going through different optical setups and industrial systems which have been recently developed. Several technological applications are discussed. In all cases, DLIP has not only shown to provide outstanding surface properties but also outstanding economic advantages compared to traditional methods.

^{1.} P. Krogstrup et al, Nature Photon. 7, 306 (2013)

^{2.} E. Russo-Averchi et al Nano Lett. 15, 2869 (2015)

^{3.} H. Potts et al, Nano Lett. 16, 637 (2016)

^{4.} J. Vukajlovic-Plestina et al, submitted (2017)

WEDNESDAY 20 SEPTEMBER 2017		TIME: 09:00-10:30	
R00M:	Friends of Music Hall/M1		
CHAIRPERSON:	Anke Kaysser-Pyzalla		



Prof. Dr. Ing. habil.
Oliver Gutfleisch
Institut für Materialwissenschaft
FG Funktionale Materialien
TU Darmstadt, Germany

Magnets as enablers for renewable energy and resource efficiency

Magnetic materials are key components in energy related technologies, sensors and information technology. Magnets are inseparable from our everyday life. "Green" energy technologies such as wind turbines, electro-mobility and solid state cooling, heavily rely on high performance magnetic materials which have to be available in bulk quantities, at low-cost and with tailored magnetic hysteresis properties [1].

The realisation of these technologies is closely linked to the sustainable availability of the strategic metals for magnetism such as the group of rare earth elements (REE) namely Nd, Gd, Tb, Dy, transition metals such as Co, Ga, Ge, In, and the platinum group metals. Resource criticality is understood here as a concept to assess potentials and risks in using raw materials for certain technologies, and their functionality in emerging technologies. The concept of criticality of strategic metals is explained by looking at demand, sustainability and the reality of alternatives of rare earth elements [2].

There is an ever-growing demand for the benchmark high performance Nd-Fe-B magnets, most importantly for use in e-motor applications, for example, in all kinds of machinery, automatization and robotics in industry (Industry 4.0). The key question will be whether Nd-Fe-B needs to be and could be substituted substantially in some of the existing and upcoming competing technologies. The arrival of a more widespread use of e-mobility and wind energy and other smart magnet usages has yet to have its impact on this applica-

- [1] O. Gutfleisch, J.P. Liu, M. Willard, E. Brück, C. Chen, S.G. Shankar, Magnetic Materials and Devices for the 21st Century: Stronger, Lighter, and More Energy Efficient (review), Advanced Materials 23 (2011) 821–842.
- [2] R. Gauss, G. Homm, O. Gutfleisch, The resource basis of magnetic refrigeration, J. of Industrial Ecology, DOI: 10.1111/jiec.12488. (2016)
- [3] O. Gutfleisch, M.D. Kuz'min, J. Gassmann, R. Gauss, Re-thinking rare earths: Demand, sustainability and the reality of alternatives, Proceedings of 23rd Int. Workshop on Rare Earth Magnets and their Applications, Annapolis, USA, August 2014.
- [4] R. Gauss and O. Gutfleisch, Magnetische Materialien Schlüssel komponenten für neue Energietechnologien, in Rohstoffwirtschaft und gesellschaftliche Entwicklung, ed. P. Kausch und J. Matschullat, März 2016, Springer Spektrum Heidelberg, Springer-Verlag GmbH, ISBN 978-3-662-48854-6, pp. 99-118.
- [5] K. Loewe, D. Benke, C. Kübel, T. Lienig, K.P. Skokov, O. Gutfleisch, Grain boundary diffusion of different rare earth elements in Nd-Fe-B sintered magnets by experiment and FEM simulation, Acta Materialia 124 (2017) 421-429.
- [6] O. Gutfleisch, T. Gottschall, M. Fries, D. Benke, I. Radulov, K. P. Skokov, H. Wende, M. Gruner, M. Acet, P. Entel and M. Farle, Mastering hysteresis in magnetocaloric materials, Phil. Trans. R. Soc. A 374: 20150308. http://dx.doi.org/10.1098/rsta.2015.0308. (2016)

tion field in terms of Nd demand. No substitute is at hand for the massive amounts of high-energy density magnet materials needed to run fast moving automated industrial machinery, and the demand is expected to rise for these kinds of applications. The same applies to e-motors in hybrid electric cars, where motor designers find highly limited construction space [2, 3]. There are different concepts for wind turbines, including those that require less or no permanent magnet materials. However, permanent magnet - so-called permanent magnet direct drive wind turbines - are far superior in terms of energy efficiency and maintenance cost and seem to be becoming the dominating type of machinery in Europe and worldwide [4].

Gas-vapour compression technology for refrigeration, heating, ventilation, and air-conditioning has remained unchallenged for more than 150 years. There is a huge demand for a smarter, more flexible and more efficient cooling technology. Magnetic refrigeration could be that alternative working without gas-based refrigerants. Energy spent for domestic cooling is expected to outreach that for heating worldwide over the course of the twenty-first century.

The talk will address these different global trends and will attempt to scale bridge these challenges by discussing the modelling, synthesis, characterization, and property evaluation of novel magnetic materials considering their micromagnetic length scales and phase transition characteristics [5,6].

WEDNESDAY 20 SEPTEMBER 2017		TIME: 09:00-10:30
ROOM:	Friends of Music Hall/M1	
CHAIRPERSON:		Brett Suddell

Materials Innovation Medal 2017



Dr. Thierry Chartier
Science des Procédés Céramiques
et de Traitements de Surface (SPCTS
European Ceramic Center. France

Additive Manufacturing of ceramics: a new way to design and fabricate advanced ceramic parts

Since their introduction in the late 1980s, additive manufacturing technologies (AM) have become very attractive to produce accurate parts via an automated process. The part is directly built up from a computer-aided-design (CAD) file, allowing the user to have an immediate response on the shape, function or performance of the object.

Used in a wide range of industries, AM allows companies to turn innovative ideas into successful end products rapidly and efficiently. Depending on the nature of the final object, the AM techniques can be used to produce a cost-effective single item or a low - volume manufacturing. Today, AM technologies are currently becoming real manufacturing processes in various industrial fields.

In the domain of ceramics, AM technologies constitute an attractive answer to the need of shaping techniques to produce useful complex parts and specific architectures which cannot be produced with a traditional method, without costly tooling and/or machining. AM technologies of ceramics are flexible techniques that offer the ability to directly redesign parts (shape/dimensions) in the CAD file to optimize a property, restricted by conventional

manufacturing methods, and with the great advantage not to have to modify the tooling.

Additive processes are likely going to transform the field of ceramic manufacturing and will open new ways of thinking about objects design and fabrication of advanced ceramic with improved or new functions.

AM technologies used in the ceramic domain, such as, Binder jetting, Robocasting, Ink-jet printing, Selective laser sintering and Stereolithography, are used or under development to build 3D ceramic parts. Among these methods, the space-resolved UV photopolymerization of a reactive ceramic system (Stereolithography) presents the advantage to makes it possible to fabricate useful, dense complex 3D objects, with a high dimensional resolution, a good surface finish and properties similar to those obtained by classical routes. This process is used to design and fabricate innovative advanced ceramic components for various applications (space, telecommunication, biomedical, engineering, jewelry...) requiring specific properties.

THURSDAY 21 SEPTEMBER 2017		TIME: 09:00-10:30
ROOM:	: Friends of Music Hall/M1	
CHAIRPERSON:	Panos Tsakiropoulos	





Prof. John Ågren

Dept. of Materials Science and Engineering
Royal Institute of Technology (KTH)
Sweeden



Prof. Spyros Pantelakis
Department of Mechanical
Engineering & Aeronautics
University of Patras, Greece

"Computational modeling and Materials Design"

Over the last 15 years "Computational modeling and Materials Design" has become a hot topic demonstrated by a steady growth in number of yearly publications and citations. During 2016 there were around new 11000 citations! Thus materials design should now be considered as an enabling technology and a real game changer in strive for faster materials development. No doubt it is a key to the circular economy and a sustainable society. For example, it offers design of materials that fulfill certain performance requirements with available raw materials. For industry this is a strategic area because the companies that master the technology will have a strong competitive advantage.

The ability to perform materials design depends critically on efficient computational models capable of predicting properties and performance with sufficient accuracy. Typically a variety of approaches operating on different scales of length and time are needed and integrated in the design process. This is the basis for the concept of Integrated Computational Materials Engineering (ICME), a field that has evolved during the last decade. The models need highly processed data extracted from the pool of raw data, i.e. the protodata, stemming from experiments and ab-initio quantum mechanical calculations. Databases containing such highly processed data are referred to as genomic databases and are a part of the Materials Genome. The CALPHAD thermodynamic and kinetic databases are role models for genomic databases.

The talk will review some of the background and present the state of the art. Some recent examples, on hard materials, glassy alloys and high-strength steels will be presented and discussed.

"Current advances and emerging needs in (r)evolutionizing aircraft structures"

Faster, safer, quieter and less polluting, operational at all weather, more cost efficient, fully recyclable are only some of the technological requirements set for modern and, especially, for future aircrafts. To respond to these demanding objectives requires for major advancements in the entire concept of designing and manufacturing an aircraft.

The aim of this work is to present current advances aircraft structures, underline the need for breakthrough concepts and technologies on designing and manufacturing aircraft structures in order to cope with the above highly demanding targets from the view point of aerostructures and present examples of some recent efforts towards revolutionizing aircraft structures.

At first, a brief overview will be made showing the evolution of aircraft materials and structures from the first all Aluminum alloy aircrafts to today's Airbus A350 made by 52% from composites. Then the work will focus on presenting significant milestones and major current achievements on material development, design concepts and manufacturing techniques allowing for the step changing evolution of aircraft structures from differential to integral. Characteristic examples such as large integral composite smart structures, involving shape morphing composite wing parts, multifunctional materials in structural applications, Structural Health Monitoring abilities by using embedded sensors, cost effective manufacturing techniques for producing thermoplastic composite structures, structural adhesive bonding, advancements on producing metallic parts made by involving Additive Manufacturing following to topology and shape optimization, etc. will be discussed. The progress achieved so far will be assessed against the technological targets set in Flight Path 2050 published by the European Commission in the year 2011. Finally, some ongoing efforts to achieve breakthrough solutions such as bio-inspired design concepts, development of aircraft wing structural concepts suitable for novel aircraft propulsion systems such as distributed propulsion combined to electrical power, use of multifunctional and self healing materials and structures, development of multifunctional structures, use of bio-composites, development of nanocrystalline aeronautical alloys, etc. will be presented.

FRIDAY 22 SEPTEMBER 2017		TIME: 09:00-10:30	
R00M:	Friends of Music Hall/M1		
CHAIRPERSON:	Anke Kaysser Pyzalla		





Prof. Luis M. Liz-Marzàn Ikerbasque Research Professor Scientific Director CIC biomaGUNE, Spain



Prof. Dimitris LagoudasDepartment of Aerospace Engineering
Texas A&M University, USA

"Composite Plasmonic Materials for Sensing and Imaging"

Metal nanoparticles display very interesting optical properties, related to localized surface plasmon resonances (LSPR), which give rise to well-defined absorption and scattering peaks in the visible and near-IR spectral range. Such resonances can be tuned through the size and shape of the nanoparticles, but are also extremely sensitive towards dielectric changes in the near proximity of the particles surface. Therefore, metal nanoparticles have been proposed as ideal candidates for biosensing applications. Additionally, surface plasmon resonances are characterized by large electric fields at the surface, which are responsible for the so-called surface enhanced Raman scattering (SERS) effect, which has rendered Raman spectroscopy a powerful analytical technique that allows ultrasensitive chemical or biochemical analysis, since the Raman scattering cross sections can be enhanced up to 10 orders of magnitude, so that very small amounts of analyte can be detected.

In this communication, we present several examples of novel strategies to employ nanostructured materials comprising gold nanoparticles embedded in porous oxides or polymers, as substrates for ultrasensitive detection of various analytes, including biorelevant molecules such as bacterial quorum sensing markers, which require the design of novel techniques for trapping them close to the metal nanostructures or to avoid signal contamination by larger biomolecules. Hybrid colloidal nanomaterials will also be introduced as SERS-encoded tags for cell identification and bioimaging. Strategies toward the incorporation of multiple functionalities for improvement of sensitivity and imaging will also be introduced.

Keywords: Plasmonics, SERS, Biosensing, Bioimaging

Recent Developments on Modeling and Characterization of Phase Transforming Shape Memory Alloys

Materials exhibiting generation or recovery of moderate to large inelastic deformations due to a reversible solid-to-solid phase transformation have gained interest in the materials community due to their existing and potential applications in the aerospace, automotive, petroleum, infrastructure and biomedical fields. In this talk, we focus on Shape Memory Alloys (SMAs), mostly NiTi and NiTiHf, which undergo a reversible austenitic to martensitic phase transformation, and we present our recent research efforts on the characterization and modeling of their behavior. These efforts aim to enhance the applicability of such complex materials in multiple engineering applications. The current work is divided into four main topics discussing the micromechanical modeling of SMAs, the application of Bayesian statistics for optimal experimental design, the modeling of fatigue and fracture of SMAs, and the multiscale modeling of SMA structural components. The current effort on micromechanical modeling of SMAs focuses on the prediction of the behavior of precipitation hardened SMAs. Precipitation hardened SMAs have gained significant attention in the materials community because their thermomechanical cyclic stability, phase transformation temperatures, and transformation strains can be adjusted through precipitation. Precipitates are nucleated during processing in which SMAs are subjected to solution annealing and subsequent aging. The predictions of the thermomechanical response of precipitation hardened SMAs are based on the modeling of representative volume elements, which take into account the presence of precipitates and the effects of diffusion of the constituent elements during precipitate formation. Bayesian approaches for optimal experimental design are coupled with the developed models to identify the optimal heat treatment and chemical composition to acquire materials with optimal performance for desired applications. The use of SMAs in novel applications also requires a thorough understanding of their fatigue life and fracture properties. Therefore, the phase transformation induced fatigue under load (or actuation fatigue) and fracture are investigated and their difference from the classical fatigue and fracture are discussed. Finally, we present multiscale modeling approaches that combine micromechanical modeling to acquire the material constitutive response with computationally efficient reduced order finite element models. These approaches enable the performance of computationally efficient simulations of the thermomechanical response of SMA structural components with particular focus on aerospace applications.





MONDAY 18 SEPTEMBER 2017

TIME: 13:00 - 15:00

Symposium G3: Critical Materials in Design, Manufacturing and Recycling

ROOM ARTIST CAFÉ/M1

CHAIR | Margarethe Hofmann



Prof. Dr. Armin Reller

Chair of Resource Strategy University of Augsburg Universitätstrasse1a, D-86159 Augsburg, Germany IWKS, Fraunhofer Project Group Materials Recycling and Resource Strat., D-63755, Alzenau, Germany

Prof. Dr. Armin Reller is professor for resource strategy in Augsburg, at the Institute of Materials Resource Management, Germany. His research focuses on the synthesis and properties of functional materials relevant for energy and environment technologies, more specifically to ecological and socio-economic impacts of exploring and applying strategic resources.

Former professor for solid state chemistry at the Institute of Physics, he now serves as chairman of the Environmental Science Center (ESC), member of the board of the Application Center for Materials and Science (AMU), and as chairman of the Graduate School "Resource Strategy Concepts for Sustainable Energy Systems" at the Universität Augsburg. He received his Ph.D. at the ETH Zürich, was postdoc at Cambridge University, did research at the Indian Institute of Science, Bangalore and was professor at the Institute of Inorganic and Applied Chemistry at the Universität Hamburg. He coordinates the Programme Solar Chemistry/ Hydrogen/Regenerative Energy Carriers for the Swiss Office of Energy Berne, Switzerland. He publishes widely, including journals such as "GAIA. Ökologische Perspektiven in Natur-, Geistes- und Wirtschaftswissenschaften" (ökom-Verlag). Also, he is a member of the raw materials council of the Umweltbundesamt, UBA (Berlin, Germany).



Willem Bulthuis

Global High-Tech Executive, Board Advisor, Business Angel, Investor

30 years of experience in Global High-Tech industries as Executive at Philips Electronics, NXP Semiconductors, Giesecke & Devrient, securet Security Networks AG.

Founding Partner of TCF Partners (Amsterdam, Munich, London), investing in capital-intensive sustainability ventures. Active Business Angel and Board Member for start-ups. Board Advisor for Corporates on Digitisation and Corporate Venturing. Focus on Digitization of Industries, Sustainability, Energy, Recycling, Agriculture, Mobility, Logistics, Smart Factories.

Co-Founder of sustainabill and Investor & Board Member at Verso Globe, two sustainability management start-ups.

Held Executive positions as Member of the Board of Management of a stock listed company, as SVP Global Sales (1B\$ turnover), Group CTO, Corporate Alliance Manager. Lived in USA (Seattle, Silicon Valley), Germany, The Netherlands. Worked in numerous industries, including Automotive, Consumer Electronics, Smart Home, Media, Smart Card, Mobile Payment, Cyber Security, Semiconductors, Components and ICT industries.

Building bridges between business partners, cultural teams, between large corporations and fast start-ups, between technology and sales and between Board and workforce.

13.15-13.40 From the Criticality of Functional Materials to Transparent Supply Chains

Armin Reller 1.2

Tchair of Resource Strategy, University of Augsburg, Universitätstrasse1a, D-86159, Augsburg, Germany, ²IWKS, Fraunhofer Project Group Materials Recycling and Resource Strat., D-63755, Alzenau, Germany

In advanced technical devices like mobile phones, laptops, cars, planes, etc. an ever increasing number of highly specific materials are assembled in order to fulfill appropriate functions. Many of these functional materials contain different metal species in various forms, most often in relatively tiny amounts or concentrations. Guaranteeing the supply of all these functional materials affords transparent supply chains and safe supplier frameworks. If it comes to the implementation of new technologies the said arguments become even more relevant. The criticality is a tool for analyzing and validating inherent criteria of the efficient usability of primary resources, i.e. of raw materials, but also of secondary resources. These qualitative and quantitative criteria or indicators comprise e.g. accessibility, scarcity, availability, technical specificity, socio-economic and ecologic issues, socio-cultural conditions, geo-political settings, etc. As a matter of fact the minimization of the dissipation of valuable materials and resources is discussed

13.40-14.00

The potential of (big) data collection throughout the supply chain for sustainability management

Willem Bulthuis

¹WBX Consulting, Germany

Actively managing the acquisition, use and re-use of critical materials in products and processes requires factual information. Statistics and models form a good starting point, but even better would be factual information from each individual supply chain, which is specific (for each product and each supplier), actual (even for every batch) and is aggregated throughout the whole supply chain. While this currently still seems not feasible, the increasing digitalization of all production and logistics processes will enable such approaches in the future. Examples of such Sustainability Management approaches will be discussed.

MONDAY 18 SEPTEMBER 2017

TIME: 13:00 - 15:00

Symposium G3: Critical Materials in Design, Manufacturing and Recycling

ROOM | ARTIST CAFÉ/M1

CHAIR | Margarethe Hofmann



Dr.-Ing. Margarethe Hofmann

FEMS Immediate Past President (2016 - 2017) CEO, Mat Search Consulting Lausanne, Switzerland

Margarethe Hofmann-Amtenbrink started her activity in 1968 as Assistant for Metallography and worked in industry for 6 years. She then studied foundry technology in Duisburg and materials science at Technical University Berlin and received her PhD in materials science at Max Planck Institute Stuttgart and Technical University Berlin, Germany.

Since 1987, when she started her own business (Mat Search Consulting Hofmann) in Switzerland, she is active in various consulting activities for industry, she was Managing Director and of various Swiss Societies, the Swiss Governmental Priority Program for Materials (PPM), the Foundation for Rare Metals, and Chairperson of the Biotechnology Programme at the AO Foundation, Davos Switzerland. Since 7 years M. Hofmann-Amtenbrink is member of the Executive Committee of the Federation of European Materials Societies, FEMS, and since 2012 Vice President, President and now Immediate Past President of FEMS for always two years. Beside other conferences she organised scientific sessions at FEMS EUROMAT conferences since 2013 and was the chair of the organisation committee of FEMS Junior Euromat 2016 at EPFL, Lausanne Switzerland. M. Hofmann was the representative of FEMS in European Projects like MatVal and MATCH (Materials Common House) and is partnering with MatSearch in HORIZON2020 Projects like e.g. FORAM and scientific coordinator of two large European projects (FP5 and FP7) in the field of nanoparticles for health applications. M. Hofmann is individual member of the Swiss Academy for Engineering Sciences, SATW, Switzerland was member of various Scientific Advisory Boards, e.g. EA European Academy of Technology and Innovation Assessment, Germany; Helmholtz-Zentrum Geesthacht, Germany; Competence Center for Applied Biotechnology and Molecular Medicine, Switzerland. She was awarded by the Rodolphe and Renée Haenny Award in 2005 in Switzerland.

14.00-14.10

Materials: the important part in the system whole value chain

Margarethe Hofmann-Amtenbrink

¹MatSearch Consulting Hofmann, Pully , Switzerland

There is an increasing demand on defined functional and advanced materials for the changing requests in energy, mobility, communication, health etc. Such materials are composed of a variety of elements and components, they are more sophisticated in design and they need various steps in the manufacturing and finishing of the system.

Today some of the products contain more than 50 elements. Some of these elements are indispensable for the function and difficult to substitute. Many of the raw materials are mined only in some countries and are therefore subject to supply risk and a large price fluctuation.

Materials research and development is part of the whole value chain of materials in a system and it might be useful to reconsider it in a frame like the Circular Economy from the raw materials through design and process steps to recycling and reuse. The presentation will highlight the needs and constrains for a reorientation of research policy in materials science.



Dr. Roland Gauß

Thematic Officer Substitution and Recycling EIT RawMaterials GmbH Europa Center Berlin, Germany

Dr Roland Gauß is a Thematic Officer at EIT RawMaterials which is a pan-European Knowledge and Innovation Community (KIC) that involves more than 110 partners from industry, universities, and research organisations. He is responsible for the thematic areas of substitution of critical, toxic, and low performance materials as well as of recycling. In 2016, he joined the EIT RawMaterials KIC from Fraunhofer Project Group Materials Recycling and Resource Strategies IWKS in Hanau, Germany where he worked as Head of Department Functional Materials with the Business Units Magnetic Materials, Energy Materials, and Lighting. His personal research interest is related to metallurgy, the life cycles of materials, and how innovation processes are triggered and pursued by society. Roland Gauß was a research fellow at TU Bergakademie Freiberg (2004) and a Marie-Curie-Research-Fellow at University College London (2006). He received his PhD from the University of Tübingen in 2008 in the fields of economic geology of copper and extractive metallurgy in prehistoric societies.

14.10-14.35

Critical raw materials in energy technologies and future mobility

Roland GAUB¹

¹EIT RawMaterials GmbH

The transition towards renewable energy and e-mobility are vital components in establishing a Green Economy. This transition in mobility and energy use comes with a fundamental shift in raw materials use. Today, the accessibility and sustainable supply of critical raw materials directly impact the production and cost of advanced materials which form the basis for a number of latest green energy and mobility technologies. The presentation will discuss recent technological developments in the fields of energy storage and permanent magnet electric drives from a raw materials supply and demand perspective. Key elements of concern are cobalt and rare earth metals. The presentation highlights possible risk mitigation strategies and example projects of the EIT RawMaterials portfolio that follow these lines

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TUESDAY 19 SEPTEMBER 2017

TIME: 13:00 - 15:00

Symposium G1: Competences and basic knowledge in the ICT ER

ROOM | ARTIST CAFÉ/M1

CHAIR | Paloma Fernández Sánchez



Dr. Elena Maria Tejado Garrido

Universidad Politecnica de Madrid Madrid, Spain

Dr. Elena Tejado earned her Ph.D. in Materials Engineering at Universidad Politecnica de Madrid in 2017, where she is actually an Assistant Professor at the Department of Materials Science. Her thesis was based on the fracture mechanical properties of tungsten based materials at extreme conditions. During her Ph.D. studies, she performed a stay at the Department of Materials Science of the Oxford University (UK). At this moment, she is the author of 10 scientific peer-reviewed publications and her scientific work has been reported at more than 50 international congresses.

Her current research areas of interest include the characterization of materials at the nano and micro scale. The materials studied are mainly for energy applications, especially refractory alloys for fusion devices, composites, and coatings. Areas of current research include: fundamentals of fracture; High temperature mechanical properties (i.e. flexural, tensile and fracture properties) under special atmospheres (high/low temperature, high vacuum...) and up to temperature above 1500K; Micromechanics of metals and ceramics by means of instrumented indentation; Surface behavior of materials at high temperature by means of tribology studies; Microstructural analysis of materials (Scanning electron microscopy, EDX, EBSD, high temperature XRD...).



Dr. Teresa Palacios García

Technical University of Madrid Madrid, Spain

Teresa Palacios García is an assistant professor at Technical University of Madrid. Her research is focused on determining the microstructural and mechanical properties of materials, mainly W-based alloys at high temperatures. As an assistant professor, she has implemented several education innovation methodologies as the flipped-classroom, the creation of a MOOC or the implementation of project-based learning methodology in a Materials Selection Course

13.15-13.35

The development of a Massive Open Online Course to analyse experimental data

<u>Elena Tejado</u>, Teresa Palacios₁, Jose Ygnacio Pastor₁, "Departamento de Ciencia de Materiales-CIME, Universidad Politécnica de Madrid, Madrid, Spain

Are your experimental results believable? Are they "accurate"? Can you handle all the numerical data around you?

To answer those questions it is essential to have the right tools for a simple analytical insight of the results, while optimizing the measurement process. Engineering and science undergraduates perform routine error calculations in the physics laboratory towards this end; nevertheless this knowledge is restricted to official university students. Hence, opening the understanding of these techniques to the entire world will be of a great interest. Massive open online courses (MOOCs) have global reach, unlimited participation, and free access over the internet via a combination of social networking and video podcasts. Regarding those strengths, we have developed an Analysis of Experimental Data MOOC.

This talk addresses the development, from the very beginning of this MOOC as well as recommendations based on our experience and on the research we conducted to prepare for our MOOC design.

"To err is human; to describe the error properly is sublime."

-- Cliff Swartz, Physics Today 37 (1999), 388.

13.35-13.55 Implementing project-based learning for materials selection

T Palacios¹, E Tejado¹, JY Pastor¹

Departamento de Ciencia de Materiales-CIME,
Universidad Politécnica de Madrid, Madrid, Spain

A new pedagogical approach called the project-based learning was implemented. Here, we report our experience with students of a Materials Selection Course where they had to work in randomly-selected teams to conduct a project. The goal of the project was to select a material to manufacture an already existing product by introducing an improvement (mechanical, physical, environmental...). The adopted teaching approach was based on the project-based learning methodology, a student-centred pedagogy that involves a dynamic classroom methodology to gain knowledge and skills through active exploration of real challenges. It allows to enhance collaboration among members of the same team as well as the competition among different teams of students.

As a result, we have observed a higher level of involvement of the students than in previous years and therefore the development of very interesting projects.

TUESDAY 19 SEPTEMBER 2017

TIME: 13:00 - 15:00

Symposium G1: Competences and basic knowledge in the ICT ER

ROOM | ARTIST CAFÉ/M1

CHAIR | Paloma Fernández Sánchez



Prof. Pedro Gamito

Head of the Computational Psychology Laboratory Lusophone University Lisbon, Portugal

Pedro Gamito earn his PhD from the University of Salford in the UK with a specializing in Information Technology in 2002, and the title of Aggregate in Rehabilitation by the University of Lisbon in 2012. Pedro is a Professor and the Director of the Psychology Computational Laboratory at the School of Psychology and Life Sciences of University Lusófona and senior researcher at COPELABS - Cognitive and People –centric Computing Laboratories, where he is also a vice-director. Since 2016, he is resident consultant at Instituto de Soldadura e Qualidade, in Portugal. He has been engage in a number of VR-based simulation projects under EU financing schemes.

13.55-14.15

Implementation of advanced technologies into Aeronautic integrated maintenance concept - Use of virtual reality in ground-floor training maintenance execution

MSc Nelson Matos¹, PhD Pedro Gamito¹, Joel Ferreira², Luis Oliveira², Margarida Pinto¹ 1/SQ, Portugal, ²TAP Portugal - ME, Portugal

In the Maintenance aviation industry, Repair and Overhaul (MRO) procedures still rely on 2D support to assist practitioners in learning and training MRO tasks. These tasks are, no more than complex actions that require a 3D insight in order to be quickly and comprehensible absorbed. Virtual Reality (VR) apps are potentially a suitable option to turn these procedures closer to reality and, hence, better adequate in improving competences and skills.

Under the EU Clean Sky 2 Joint Undertaking programme, the AIRMES project

is following this concept applied to maintenance execution by developing a VR app to help practitioners in the process of carrying out specific maintenance activities as removing and positioning components into aircraft structures. The system is a VR-based platform that uses a smartphone and a portable motion capture device coupled with a head mounted device. This mobile solution will allow practitioners to learn and to train onsite on how to proceed with the maintenance operations. An immersive and



interactive environment displays the host aircraft structure section with the component and associated system parts, in which the 3D component can be removed by virtual hands that emulate, through the motion capture device, the hands of the user (Figure 1 – VR interactive system for aeronautical MRO operations).

The system in development will provide high level training and reliable information to the technician on the maintenance operations for a dedicated situation and facilitate the identification and execution of the procedure to be applied, improving the time for repair.



Prof. Paloma Fernández Sánchez

Departamento de Física de Materiales Facultad de Ciencias Físicas Universidad Complutense de Madrid Madrid, Spain

I am a member of the Department of Materials Physics at the Faculty of Physics in University Complutense of Madrid since 1986, when I incorporated as Assistant and worked for my PhD. I obtained a permanent position in 1992 and the Professorship in 2007.

Presently, the research of my group (Grupo de Fízsica de Nanomateriales Electrónicos, FINE) is focused on the study of nanocrystalline semiconductors and their optical and electronic properties. I have also a research line focused on Materials Science Education, with special attention to Collaborative Work Strategies, Project and Game based Learning.

I am member of several scientific societies, at present Immediate- Past President of the Spanish Materials Society (SOCIEMAT), that I have chaired from January 2007 to January 2017 and Vice-president of the Federation of European Materials Societies (FEMS).

14.15-14.35

Web tools to foster creativity and autonomous learning: Collectables as learning tools

A.F. Aguilar¹, C.S. Amores¹, V. A. Cabezas¹, J.A. López-Orozco², <u>P. Fernández</u>²

¹Facultad de Informática, Universidad Complutense, ²Departamento de Arquitectura de Computadores y Automática, Facultad de Ciencias Físicas, Universidad Complutense, ³Departamento de Física de Materiales, Facultad de Ciencias Físicas, Universidad Complutense

The use of games as learning tools is very extended in the lower education levels, especially in the Primary School. However, as we move to higher levels of education, games are scarcely used, and in the few occasions in which they are used are normally not linked to syllabus but seen as a padding activity, without any role in evaluation or core material. In this progression, when the University is reached, game has been completely abandoned as a learning tool, moreover it is considered as a waste of time. But the game dynamic has a series of characteristics which confer a great versatility to develop different competences, considered of the major importance in the present Society.

Two main aspects could be considered, which connect directly to two different game modalities, in both cases offering an enormous potential to be applied in the classroom. Competitive games help to learn how to tackle with unfavourable situations, to design more efficient strategies (winner strategies) and to develop the critical thinking. In the collaborative approach, group skills, resource managing, or negotiation strategies are reinforced.

TIC-TAC: COLECCIONA, reproduces a virtual collecting environment, in which through the solution of questions or small challenges, the students may collect all the elements of an "ad hoc" created set. The collectables are designed, in principle by the teacher, to fit the level and the contents of the imparted subject, and may be also used to elaborate additional support material for students. The collaborative side is introduced, allowing the students to Exchange elements. Finally, and that is very important to promote learning, there is not a single winner, but any student completing the collection is a winner.

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WEDNESDAY 20 SEPTEMBER 2017

TIME: 12:00 - 13:30

Symposium G2: Key materials field for modern curricula

ROOM

3.20/M1

CHAIR

Hariton Polatoglou



Prof. Arash Mostofi

Director, CDT in Theory and Simulation of Materials Imperial College London, UK

Arash Mostofi is an Associate Professor in the Departments of Materials and Physics at Imperial College London. He is Director of the Centre for Doctoral Training in Theory and Simulation of Materials at Imperial College London and of the Thomas Young Centre, the London Centre for Theory and Simulation of Materials.

Arash leads a research group that is dedicated to the application and development of theory and computational tools for studying problems in materials. He is an original author and developer of two major electronic structure simulation codes, ONETEP and Wannier90, used by research groups worldwide. His research interests span a broad range of phenomena and materials, including charge transport and screening in low-dimensional materials, structure-property relations in perovskite oxide thin films and interfaces, and polymer membranes for separation processes.

Arash graduated with a first class degree in Natural Sciences (2000) and a PhD in Condensed Matter Theory (2004), both from the University of Cambridge. Immediately before joining Imperial College London in 2007 he was a post-doctoral researcher at the Massachusetts Institute of Technology.

12.00-12.25

The Centre for Doctoral Training in Theory and Simulation of Materials

Dr Arash Mostofi¹

¹Director, Centre for Doctoral Training in Theory and Simulation of Materials, Imperial College, London

Materials underpin every modern technology, from electronic devices and telecommunications to nuclear reactors and high-performance jet engines, and Advanced Materials have been identified by the UK Government as one of the "eight great technologies" [1] that will propel future growth of the economy. Many important phenomena in materials span a range of length- and time-scales. These different scales, however, are traditionally confined within separate disciplinary silos, each with their own methods and language, which can have the effect of hindering multi-disciplinary collaboration.

The EPSRC[2] Centre for Doctoral Training (CDT) in Theory and Simulation of Materials (TSM)[3] at Imperial College London was established in 2009 with the mission to create a new generation of scientists and engineers with the theoretical and computational abilities to model properties and processes in materials across a range of length- and/or time- scales. To date, the Centre has recruited over 100 students in eight cohorts, supervised by over 70 supervisors at Imperial and 16 external organisations (including industry, research institutes and national laboratories).

In this talk I will discuss the added value brought by a Centre-based model for doctoral training, giving examples from my experience with the CDT in TSM, and I will highlight one or two examples of the transformative research that it has enabled.

[1] https://www.gov.uk/government/speeches/eight-great-technologies [2] Engineering and Physical Sciences Research Council; www.epsrc.ac.uk [3] www.tsmcdt.org



Prof. Hariton Polatoglou

Aristotle University Of Thessaloniki Faculty of Sciences, School of Physics Thessaloniki, Greece

Dr. Hariton Polatoglou is a Professor of the Solid State Physics Department of the School of Physics of the Aristotle University of Thessaloniki (AUTH) and is head of the EPG (Electronic Properties Group) and the Laboratory for Physics Didactics and Educational Technology (EDIFET). He obtained a BSc in Physics (1977) and MSc in Physical Electronics at the Aristotle University of Thessaloniki. At the same university he completed his PhD thesis on the electronic properties of binary compounds with an average valence of 5. As a post-doc he worked at the Institute for Solid State Research in Stuttgart, the Fritz Haber Institute in Berlin, the Physical Chemistry Department in Cambridge and the Materials Science Department in Oxford. Fields of interest include: Theoretical Solid State Physics, ab-initio, semi empirical methods, and finite element methods to study the structural, electronic, and optical properties of metallic and semiconductor alloys, and of nanostructures such as quantum wires, quantum dots, and surfaces, statistical physics methods to study the thermodynamic properties of the above structures, assistive technologies for the disabled tertiary students, standardization, quality systems, optimization, didactics of Physics, educational technology, computer modeling and simulation.

12.25-12.50

Material properties and simulations of thermal transfer processes for introducing sustainable development subjects into the curricula

Prof. Hariton Polatoglou¹, Mrs Stamatia Artemi, Mrs Anthoula Maidou¹

Aristotle Univ. Of Thessaloniki. Thessaloniki. Greece

Education for Sustainable Development (ESD) is of universal importance and one of the main strands of UN's Framework 2030 for education. The introduction of subjects related to ESD in curricula is a difficult task as they are: a) interdisciplinary in nature, b) include scientific subjects that are not normally taught at schools or universities, c) are related to real-life situations, d) many times involve material properties and e) involve processes which have complicated mathematical description. The thermal behavior of structures like houses, schools etc. is crucial to the sustainable development and in addition building are places where people, students and educators experience every-day. Despite its the importance, the subject it is not included in the curricula for reasons stated above and like other ESD subjects. One important characteristic of the subject is, that it involves to a great extend materials, their properties and their thermal behavior. In this work, we propose that computer simulations can facilitate the introduction of ESD subjects to curricula of different levels of education and to lifelong education. As an example, we present a set of computer simulations with the aim study the thermal processes that occur in buildings and the role of materials properties in these processes. Grounded on that, one can explore how different materials can be utilized to design and build systems that contribute to the goal of sustainability. These simulations can be used as an integral part of a curriculum subject or as independent entities in many situations and scenarios which could be incorporated in existing subjects.

WEDNESDAY 20 SEPTEMBER 2017

TIME: 12:00 - 13:30

Symposium G2: Key materials field for modern curricula

ROOM | 3.20/M1

CHAIR

Hariton Polatoglou



Prof. Jean-Pierre Bucher

Institut Universitaire de France IPCMS. UMR 7504 CNRS Université de Strasbourg, France

Jean-Pierre Bucher has been a full professor at Universy of Strasbourg since 1994.

He got a PhD from the Ecole Polytechnique Fédérale de Lausanne working on quantum size effects in metal clusters. Then he was an advanced research fellow from the Swiss Science Foundation at University of Virginia (1989): work on magnetic properties of atomic clusters by Stern-Gerlach deflection. KFA-Jülich, invited scientist: work in surface science with G. Comsa. EPFL (1992), research scientist with K. Kern, exploring new ways of nanostructuring surfaces. JPB has developed new spectroscopic approaches both, in SG and near-field microscopy experiments. He is co-author of 140 articles and book chapters. His research interest focuses on molecular nanoscience, in particular spin polarized transport through single objects in STM junctions with the main objective of furthering knowledge on nanosystems exhibiting multifunctional behavior. He was nominated a senior professor of the Institut Universitaire de France in 2010 and he is presently the director of the Doctoral School for Physics and Chemical Physics at the University of Strasbourg.

12.50-13.15

A Doctoral School in Advanced Material Science: from Recruitment of PhD Students to Professional Integration

Bucher Jean-Pierre¹

¹University of Strasbourg, Assoc Institut de Physique et Chimie des Matériaux

In this presentation, emphasis will be put on the training and follow-up of PhD students in material science. In particular, suggestions will be given on (i) how to make researchers and supervisors participate in the training process so that the whole community feels concerned with this issue. (ii) Favor international opening in the PhD curricula: PhD in cotutelle, participation in international programs. (iii) Organization and promotion of events dedicated to PhD students, such as thematic days, summer/winter schools and the Doctoriales. (iv) The role of the follow-up committee; the mid-term PhD presentation and the thesis defense. (v) Integration in the real world: the skillsportfolio, the link with the world of industry, job opportunities, employment statistics and the alumni network. The case of the Doctoral School of Physics and Physical-Chemistry of Strasbourg will serve as an example in the general context of the IdEx and LabEx programs of the University of Strasbourg as well as Eucor — the European Campus.

FUROMAT2017

THURSDAY 21 SEPTEMBER 2017

TIME: 13:00 - 15:00

Symposium G4: Transferable skills for Masters and PhD's in Material science

ROOM ARTIST CAFÉ/M1

CHAIR | Heinrich Hofmann



Dr.- Ing. Flavio Soldera

EUSMAT General Manager
Dept. Materials Science & Engineering
Saarland University, Saarbruecken, Germany

Flavio Soldera (Dr.-Ing.) was born in Argentina, in 1973. He studied Mechanical Engineering at the Comahue National University in Argentina, obtaining his Engineering degree in 1997. In 2005 he obtained his PhD in Materials Science and Engineering from the Saarland University in Saarbrücken (Germany), being supported by a scholarship of the German Academic Exchange Service (DAAD).

His scientific interest includes: advanced materials for electrical application: 3D analysis of micro / nano structures; and electron microscopy and focused ion beam applications.

Since 1998 he is affiliated to the Saarland University, having co-authored 60 perreview publications. Since 2005 he is coordinating international study and research programs in the field of Materials Science and Engineering and since 2008 is the general manager of the European School of Materials (EUSMAT). Among others projects, he coordinates the Erasmus Mundus programes AMASE (Master) and DocMASE (Doctorate) as well as the RISE project CREATe-Network. Several projects of the European Commission, the DAAD as well as the German French University are part of the portfolio of EUSMAT. From 2012 he is also deputy director of the Steinbeis Transfer Institut CaMPlusQ, dealing with "on-the-job" Master studies and from 2017 is part-time researcher at the Steinbeis Materials Research Center Saar.

13.15-13.40

Multilingualism and intercultural skills support the internationalization in Materials Science and Engineering

Dr.-Ing. Flavio Soldera¹, M.A. Claudia Heß¹², Prof. Dr.-Ing. Frank Mücklich¹
¹European School of Materials, Department Materials Science and EngineeringSaarland
University, Saarbrücken, Germany, ²Romanische Kulturwissenschaft und Interkulturelle
Kommunikation, Saarland University, Saarbrücken, Germany

The demand for social skills of students and graduates of technical studies, particularly in Europe, has been increasing continuously in the last years, mainly caused by the current social context: rapid changes and increased globalization, growing social complexity (multicultural and less uniform society), increased and varied migration flows, increased mobility (professional and geographical) of individuals, and finally the demographic structure represented by an aging population. Some demanded skills are multilingualism, intercultural communication capabilities, intercultural sensitivity, presentation abilities, team work and independency. These skills can be learned theoretically in lectures and in practical work, but mainly through the self-experience of students when they are confronted to real demanding situations, like for instance during an international exchange. At the programs of the European School of Materials (EUSMAT) we follow the different ways. On one side we have integrated language courses and training on intercultural communication in the study curricula, and on the other side the students have to spend a compulsory study period abroad. We will present the different programs of EUSMAT at Bachelor, Master and PhD level (see Fig. 1), as well as the different tools that we apply to support the mobility and the training on social competencies. One main distinctiveness of our programs is the multilingualism: all our students need to command at least two languages out of English, German, French and Spanish. We will present our language policy and discuss how we support the students to manage learning technical subjects in two languages and which are the positive effects for their later development. Moreover, we will demonstrate that our programs are attractive, even though the solely English command is not enough for the success. Finally, we will focus on the benefits and challenges of international study programs for students, for teachers, universities and the society.



THURSDAY 21 SEPTEMBER 2017

TIME: 13:00 - 15:00

Symposium G4: Transferable skills for Masters and PhD's in Material science

ROOM

ARTIST CAFÉ/M1

CHAIR

Heinrich Hofmann



Prof. Emmanuel P. Giannelis

Walter R. Read Professor of Engineering Materials Science and Engineering Department Cornell University, USA

Emmanuel Giannelis is the Walter R. Read Professor of Engineering and the Associate Dean for Research and Graduate Education in the College of Engineering at Cornell University. His research interests include Nanomaterials for Energy, Biomedical, and Environmental Applications. His group is internationally recognized as one of the leading groups in nanohybrids and nanocomposites. He is a Fellow of the American Chemical Society and of the Polymer Materials Science and Engineering Division of the American Chemical Society. He has won the 2014 Cooperative Research Award from the American Chemical Society, and he is a member of the European Academy of Sciences.

13.40-14.05

A Program to Catalyze Innovation and Entrepreneurship at Research Universities

Emmanuel P. Giannelis¹

Cornell University, Department of Materials Science and Engineering, Ithaca, NY 14853, United States

A new initiative to increase the volume, velocity, and success rate of technology commercialization and start-up creation by affecting a culture shift from academic to entrepreneurial at Universities and Research Institutes will be presented. The initiative provides researchers with experiential learning opportunities and resources to de-risk technologies both technically and commercially with the ultimate objective of increasing start-up creation, industry engagement, and technology translation. The ultimate objective is to stimulate entrepreneurship and enhance future economic development and growth. The initiative is based on three main pillars: 1) an experiential learning program for PhD students and postdocs in Science and Engineering to work one-on-one with mentors and coaches to identify potential markets and build the business case for their technologies, 2) resources and expertise to de-risk technologies both technically and commercially; and 3) start-up creation through a new program that requires participants to launch their companies while supported by the program.

Modern economy is driven by technology and innovation and science and engineering are at the center of the technological innovation. Over the years science and engineering have been responsible for stimulating high-growth economic activity all over the world. Traditional companies are changing rapidly and new ones emerge as a result of new technologies. To become competitive in the knowledge/innovation economy we need to develop the workforce with the appropriate training, skills, culture, and mindset. Though technical advances are common in established companies, disruptive innovation is typically associated with start-ups. Regardless, as product life cycles shrink and the need for high productivity intensifies product development cycle times need to be shorten. Researchers, who combine in-depth science and technology training with entrepreneurial mindset, will provide the future industry innovators in both startups and established corporations.



Prof. Heinrich Hofmann

Powder Technology Lab EPFL Lausanne, Switzerland

Hofmann Heinrich, Prof. Dr.-Ing. Studied Material Science and Engineering at the Technical University of Berlin. 1983 he got his PhD in Material Science with a thesis prepared at the Powder Metallurgy Laboratory at the Max Planck Institute in Stuttgart. In 1985 he joined the R&D center of Alusuisse-Lonza Services AG, at Neuhausen-am-Rheinfall. He developmed new alumina, titania stabilized zirconia and silicon nitride powders for ceramic applications. 1993 he joined the Swiss Federal Institute of Technology (EPFL) as Professor and Director of the Powder Technology Laboratory at the Department of Materials Science and Engineering. His research area includes the synthesis of nanostructured materials based on nanoparticles and the modification of surfaces with nanoparticles using colloidal methods. He is a cofounder of ANTIA Therapeutics a company developing nanocomposites for cancer treatments. His publication list comprises over 170 publications in reviewed journals, 33 publications in proceedings, co-author of 8 books and he is co-inventor of 15 patents or patent applications.

14.05-14.30

Successful development of nanomaterials for medical applications: Necessary skills and knowledge

Heinrich Hofmann¹

¹Ecole Polytecnique</sup> Fédérale de Lausanne, Institute of Materials, Powder Technology Laboratory, Lausanne, Switzerland

Nanotechnology and especially nanomaterials have still an interesting potential for the development of new materials and applications. Beside electronic devices and coatings, medical applications of nanomaterials is one of the most investigated field. Interestingly is the fact, that independently of the huge amount of money invested into this area of research, only a very few number of products are reaching the clinics. In the field of inorganic nanomaterials, like nano-sized iron oxide for cancer treatment, as contrast agent for MRI, not one product is today fully accepted on the market. Working since more than 20 years with nanoparticles the author will give an overview of the needs that are, beside a very good understanding of material science, necessary to start and to bring the research and of such biomaterials ahead. It will be shown, that we have to understand first the needs of the patients and we have to transfer this needs into the right scientific questions to solve the diagnostic or therapeutic challenges. In parallel regulations in the field of pharmaceutical products, the standards for characterization and the situation regarding the IPR have to be evaluated. It is important to show that for synthesis and characterization of nanomaterials most of the standards and standard operational procedures (SOP) are missing, also the important challenge regarding good manufacturing practice (GMP), an essential guideline to start scale-up for the production of materials for preclinical and clinical trials, are often not taken in account. Therefore, material scientists and engineers have to develop in parallel to new products also the standards and has to develop the scientific base for the decisions of regulatory bodies. This very complex and multidisciplinary environment for the development of new (nano) materials for medical application is challenging and demands several important transferable skills to be successful.

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iPROMEDAI Young Scientist Forum

SUNDAY 17 SEP	TEMBER 2017	TIME : 09:30-18:30
R00M:	CR II Hall/M2	
CHAIRS:	Medical Center at the Amsterdam, The Net Aldona Mzyk – Instit	of Medical Microbiology, Academic Duniversity of Amsterdam, herlands – m.riool@amc.uva.nl tute of Metallurgy and Materials emy of Sciences, Krakow, Poland email.com

MONDAY 18 SEP	TEMBER 2017	TIME: 11:00-19:30
R00M:	Artist Café/M1	
CHAIRS:	Medical Center at the	t. of Medical Microbiology, Academic e University of Amsterdam, therlands - m.riool@amc.uva.nl
Aldona Mzyk – Institute of Metallurgy and Materials Science, Polish Academy of Sciences, Krakow, Polar aldonamzyk@googlemail.com		lemy of Sciences, Krakow, Poland

Supported by the TD1305 COST Action iPROMEDAL

The prime objective of the TD1305 COST Action iPROMEDAI is the identification and assessment of recently developed anti-DAI (Device-Associated Infection) approaches in a comprehensive pan-European effort. Understanding and combating DAI is a device-dependent, highly complex and trans-disciplinary challenge requiring collaborations between clinics to define the practical boundary conditions and unmet needs, material and surface engineering to elaborate on enhanced material/drug combination systems, pharmacology and (micro) biology to explore novel antimicrobial active compounds and establish advanced, DAI-relevant test systems in vitro as well as in dedicated animal models.

Goals of the iPROMEDAI Young Scientist Forum

The iPROMEDAL Young Scientist Forum will provide interactive discussion sessions on topics that concern every Early Stage Researcher in the field of Advanced Antimicrobial Biomaterials. It will provide an interactive networking platform to share knowledge on and exchange experience about career opportunities, grant possibilities, scientific communication as well as work for/collaborate with industry.

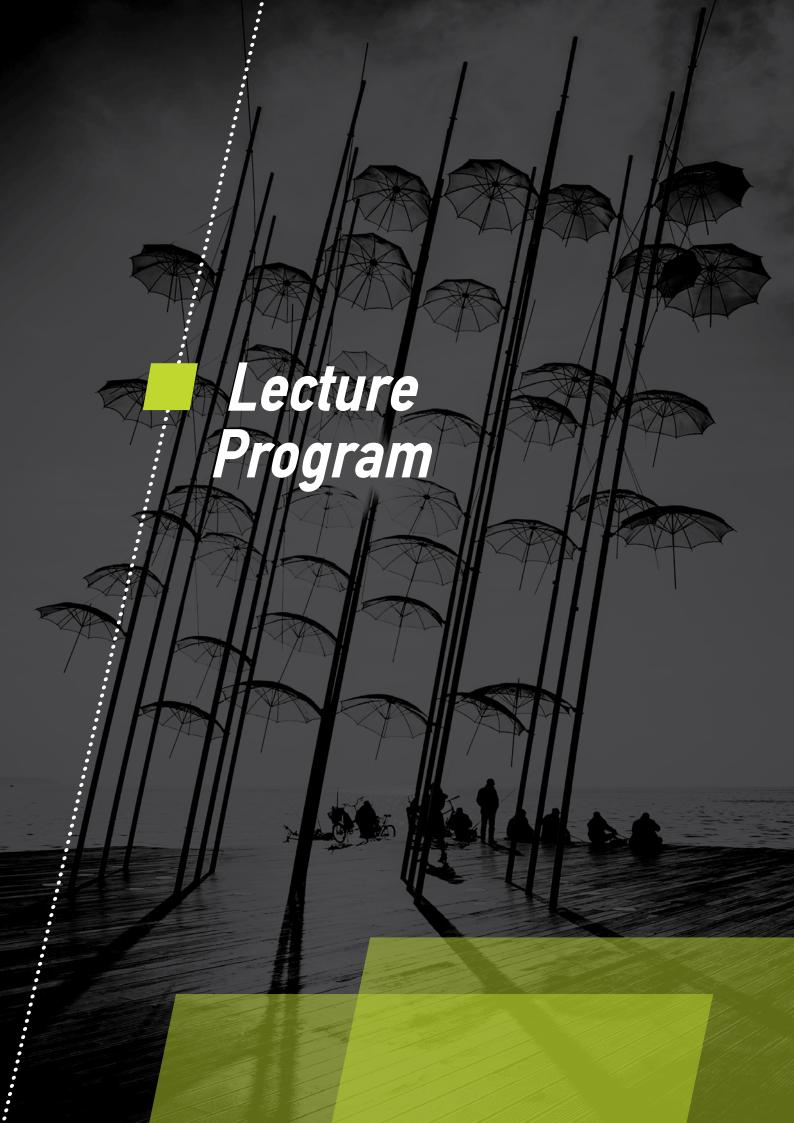
It will be an unique opportunity for the participants to:

- present their research interests
- learn about grant opportunities
- find other ESR partners for collaborative projects
- learn how to set up collaboration with industry
- be guided how to build your scientific career and network
- improve your scientific communication
- meet and establish cross-border contacts

	SUNDAY 17th SEPTEMBER			
09:30 - 10:00	Registrati	on		
10:00 - 12:15	Session 1 – Ice Breaker	Chair: Martijn Riool		
10:00 - 10:15	Welcome & general introduction	Aldona Mzyk (PL)/Martijn Riool (NL)		
10:15 — 12:20	Introduction talks	All participants		
12:20 - 15:50	Session 2 – Science & Communication	Chair: Martijn Riool		
12:20 - 13:00	From an editorial board point of view	Jolke Perelaer (DE)		
13:00 - 14:30	Lunch br	reak		
14:30 - 15:10	Scientific communication	Monika Aksamit-Koperska (PL)		
15:10 — 15:50	Q&A	Speaker panel		
15:50 — 16:10	Coffee & tea	a break		
16:10 - 18:30	Session 3 — Funding Experience	Chair: Aldona Mzyk		
16:10 - 16:40	Experience from a grant awardee: ESR	Daniela Boehm (IE)		
16:40 — 17:10	Experience from a grant awardee: Senior Scientist	Yannis Missirlis (GR)		
17:10 — 17:50	From a referee point of view	Kostantin Sipos (FR) — live stream		
17:50 — 18:30	Q&A	Speaker panel		
20:00	Welcome recepti	on EUROMAT 2017		

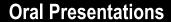
MONDAY 18th SEPTEMBER			
09:00 - 10:30	Opening EUROMAT 2017	Plenary session	
10:30 - 11:00	Coffee & tea break		
11:00 - 13:00	Session 4 – Funding Possibilities for ESRs	Chair: Aldona Mzyk	
11:00 - 11:30	Overview (inter)national funding possibilities	Aldona Mzyk/Martijn Riool	
11:30 - 12:10	ERC & Marie Skłodowska-Curie Fellowships	To be announced	
12:10 - 12:45	Q&A	Speaker panel	
12:45 — 13:00	Group photo	All participants	
13:00 — 15:00	Lunch break		
15:00 - 17:00	Session 4 – From Academia to Industry	Chair: Aldona Mzyk	
15:00 — 15:40	Young entrepreneur view from a start-up company	Mateusz Dylag (PL)	
15:40 — 16:20	Career paths in science view from a large company	Ricky Woofter (US)	
16:20 — 17:00	Q&A	Speaker panel	
17:00 — 17:30	Coffee & tea break		
17:30 - 19:30	Session 5 — Mentorship	Chair: Martijn Riool	
17:30 — 18:30	Keynote: Building your scientific career and network	Erik Reimhult (AT)	
18:30 — 19:00	Q&A		
19:00 — 19:30	Closure of the meeting	Aldona Mzyk & Martijn Riool	
21:00	YSF dinner		

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Coding Rules

This program is based on the data on September 4th, 2017



A1-H3

Symposium

MON: Monday

TUE: Tuesday

WEN: Wednesday

THU: Thursday

FRI: Friday

Day of presentation

D3 O FRI AM2

Type of presentation

I/K: Invited/Keynote H: Highlight

O: Oral

I/K: 40 minutes

H: 20 minutes

O: 20 minutes

Sessions

AM2: from 11:00 to 13:00

PM1: from 15:00 to 17:00

PM2: from 17:30 to 19:30

Posters

A1-H3

Symposium

TUE: Tuesday THU: Thursday

Day of presentation

B4 | P | THU | P | 28

Type of presentation

Poster

Sessions

P1:

Tuesday, from 13:00 to 15:00

P2:

Thursday, from 13:00 to 15:00

Poster number

From 1 to...







Symposium	A3	A5	A8	B2
Room	I-11/M1	MOYSA Hall/M2	I-08/M1	Aimilios Riadis Hall/M2
Session Title	Nanostructured polymers I	Nanoparticle Synthesis and applications I	Functional oxides 1	Opening Session
Chairperson	Jean-François GERARD	Antonios Kanaras	Julien Varignon	Michele Manuel
	INFLUENCE OF CARBON NANOPARTICLE MOR- PHOLOGY ON THE MECHANICAL AND ELECTRICAL PROPERTIES OF POLYMER NANOCOMPOSITES REGARDING THE SIZE EFFECT	FACILE SYNTHESIS OF LEAD-FREE BISMUTH-BASED C3Bi2i9 PEROVSKITE NANOCRYSTALS	KEYNOTE/INVITED EXOTIC ORDERS AND EMERGENT PHENOMENA IN FUNCTIONAL OXIDES	KEYNOTE/INVITED ALUMINIUM, CURRENT AND FUTURE DEVELOPMENT
11.00	Christian Leopold ¹ , Till Augustin ¹ , Thomas Schwebler ¹ , Jonas Lehmann ¹ , DrIng, Wilfried V. Liebig ² , Prof. DrIng habil. Bodo Fiedler	Postdoc Researcher Nimai Mishra¹, PhD student Giuseppe M. Paternó¹, Porf Annamaria Petrozza², Researcher Mirko Prato¹, Porf Liberato Manna¹	. Dr. Jorge Iniguez¹	<u>Jürgen Hirsch</u>
	'Hamburg University of Technology - Institute of Polymer Composites, Hamburg, Germany, 'Karlsruhe Institute of Technology - Institute of Vehicle System Technology, Karlsruhe, Germany	¹Istituto Italiano Di Tecnologia, Genova, Italy, ²Center for Nano Science and Technology @Polimi, Istituto Italiano di Tecnologia, Milano, Italy		
	MANIPULATION OF CONDUCTIVITY/PERMITTIV- ITY IN GRAPHENE OXIDE BASED INSULATION MATERIALS FOR STRESS CONTROL IN ELECTRICAL APPLICATIONS	THE ROLE OF THE CRYSTAL STRUCTURE IN CATION EXCHANGE REACTIONS INVOLVING COLLOIDAL Cu2SE NANOCRYSTALS		
11.20	Dr Emmanuel Logakis¹, Dr Roman Kochetov¹, Dr Alex Skordos²	Graziella Gariano, Vladimir Lesnyak, Rosaria Brescia, Giovanni Bertoni, Zhiya Dang, Roberto Gaspari, <u>Luca</u> <u>De Trizio,</u> Liberato Manna	'Luxembourg Institute Of Science And Technology, Belvaux, Luxembourg	Hydro Aluminium Rolled Products GmbH, R&D, Bonn, Germany
	¹ ABB Corporate Research, Baden-Dättwil, Switzerland, ² Cranfield University, Cranfield, UK			
	BORON NITRIDE NANOTUBES BASED POLYMER NANOCOMPOSITES FOR STRUCTURAL MATERIALS AND COATINGS	FUNCTIONAL NANOPARTICLES, COLLOIDS AND THIN FILMS FOR BIOIMAGING AND ENERGY APPLICATIONS: Zno, Sio2 and Transition METAL CLUSTER	UNDERSTANDING EMERGENCE AND ORDER IN LAO/STO HETERO-INTERFACE	HIGHLIGHT CHALLENGES AND POTENTIALS FOR NEXT GENERATION AUTOMOTIVE LIGHTWEIGHT CONCEPTS
11.40	Yadienka Martinez Rubi¹, Mike Jakubinek¹, Behnam Ashrafi², Jingwen Guan¹, Christa Homenick¹, Keun Su Kim¹, Meysam Rahmat³, Chris Kingston¹, Benoit Simard¹	Director of Research Fabien Grasset ¹ , Dr. Wanghui Chen ¹² , Ms Ngan.T.K. Nguyen ¹² , Dr. Adèle Renaud ² , Dr. Benjamin Dierre ^{1,4} Dr. Noriko Saito ² , Dr. Maria Amela-Cortes ³ , Ms. Noée Dumait ³ , Dr. 'Yann Molard ³ , Dr. Stéphane Cordier ³ , Dr. Naoki Ohashi ^{12,4} , Dr. Tetsuo Uchikoshi ^{12,4}	Dr. Arghya Taraphder ¹	Prof. Dr. Horst E. Friedrich ¹ , Dr. Elmar Beeh, Gundolf Kopp
	'Security and Disruptive Technologies Portfolio, National Research Council Canada, Ottawa, Canada, 'Aeraspace Portfolio, National Research Council Can- ada, Montreal, Canada, 'Aerospace Portfolio, National Research Council Canada, Ottawa, Canada	'Cris, Tsukuba, Japan, 'Research Center for Functional Materials, NIMS, Tsukuba, Japan, 'ISCR UMR 6226 CNRS-University of Rennes', Rennes, France, 'NIMS-Saint-Gobain COE for Advanced Materials, Tsukuba, Japan	¹Indian Institute Of Technology, Kharagpur , Kharagpur, India	[†] Deutsches Zentrum Für Luft- Und Raumfahrt (dlr) E.v., Stuttgart, Germany
	NANOMECHANICAL CHARACTERIZATIONS BY AFM TO UNDERSTAND THE STRUCTURE AND BEHAVIOR OF POLYMER BLENDS COMPATIBILIZED WITH IONIC LIQUIDS	INVESTIGATION OF THE ELECTRONIC PROPERTIES OF NANOPARTICLE BASED POROUS STRUCTURES	TUNNELING ANISOTROPIC MAGNETORESISTANCE IN COMPLEX OXIDE TUNNEL JUNCTIONS	HIGHLIGHT A COST EFFECTIVE 55KG PER VEHICLE LIGHT-WEIGHTING SOLUTION, MAGNA'S ULTRALIGHT FUNCTIONALLY INTEGRATED ALUMINUM DOOR
40.00	Benjamin Megevand ¹ , Dr. Sébastien Pruvost ¹ , Pr. Jannick Duchet-Rumeau ¹	<u>Jan F. Miethe</u> ^l , Franziska Lübkemann ^l , Dr. Jan Poppe ^l , Dr. Nadja C. Bigall ^l	Prof Benjamín Martnez', <u>Ms Laura Lopez-Mir</u> ', Dr Re- gina Galceran', Dr Lluís Balcells', Dr Alberto Pomar',	Tim Skszek
12.00	¹ Université de Lyon, INSA Lyon, UMR CNRS 5223,		gina vaceram , Druds bacetas , or Nacional or Nacional of Dr Zorica Kostantinovic ² , Dr Felip Sandiumenge ¹ , Dr Carlos Frontera ¹	
	Ingénierie des Matériaux Polymères, 69621 Villeurbanne, France	'Leibniz Universität Hannover, Hanover, Germany	'Icmab-csic, Bellaterra, Spain, 'Unité Mixte de Physique, CNRS, Thales, Palaiseau, France, 'Center for Solid State Physics and New Materials Institute of Physics Belgrade, University of Belgrade, Belgrade, Serbia	Magna R&D
	EXPERIMENTAL CHARACTERIZATION OF MAGNE- TO-RHEOLOGICAL ELASTOMERS FOR MODELING PURPOSES		MAGNETOELASTIC COUPLING IN EUTIO3 AND IN ITS MIXED CRYSTALS WITH S/TIO3 – POSSIBLE CANDIDATES FOR NOVEL FUNCTIONALITIES	HIGHLIGHT EMERGING APPLICATIONS – THE WIDER APPLICATION OF MAGNESIUM ALLOYS IN CIVIL AIRLINERS AND ROTORCRAFT
12.20	Dr Laurence Bodelot ¹ , Jean-Pierre Voropaieff ¹		Prof. Jürgen Köhler ¹ , Prof. Annette Bussmann-Holder ¹	Dr Sarka Jeremic, Martyn Alderman ¹ ,
	'Ecole Polytechnique, Palaiseau, France		*Max-Planck-Institute, 70569 Stuttgart, Germany	'Magnesium Elektron, Manchester, United Kingdom
12.40				HIGHLIGHT BULK METALLIC GLASSES FOR LIGHTWEIGHT APPLICATIONS
				Dr. Atakan Peker¹ ¹Washington State University, Spokane, USA



Symposium	B3	B5	B10	B11
Room	CR I Hall/M2	Conference Room 1/M1	Maurice Saltiel Hall II/M2	Maurice Saltiel Hall III/M2
Session Title	Single Crystals Ni-base Superalloys I	Carbides and CNT's	Fatigue & Fracture I - Local Strain Approach and Applications	Fatigue of Metallic Materials
Chairperson	Srdjan Milenkovic	Natalia Sobczak	Georgios Savaidis	Tilmann Beck
	KEYNOTE/INVITED CHALLENGES FOR THE DESIGN OF Ni-BASED SX SUPERALLOYS COMPONENTS	COLLOIDAL PROCESSING AND LIQUID-PHASE ASSISTED FAST SINTERING OF SIC-CNTS NANO- COMPOSITES WITH ENHANCED SLIDING-WEAR RESISTANCE	KEYNOTE/INVITED THE LOCAL STRAIN APPROACH FORMULATED AS A GUIDELINE FOR PERFORMING ASSESSMENTS OF THE FATIGUE STRENGTH OF COMPONENTS	KEYNOTE/INVITED STUDY OF FATIGUE SLIP MARKINGS AT THE SURFACE OF A MARTENSITIC STEEL
11.00		Dr. Victor M Candelario¹, Dr. Angel L Ortiz¹, Dr. Rodrigo Moreno² ¹Departamento de Ingeniería Mecánica, Energética y de los Materiales, Universidad de Extremadura, Badajoz, Spain. ¹Instituto de Cerámica y Vidrio, CSIC, Madrid. Spain	- <u>Melanie Fiedler'</u> , Michael Vormwald ¹ , Michael Wächter ² , Alfons Esderts ²	Gulzar Seidametova ¹ . Pr Jean-Bernard Vogt ¹ . Dr Ingrid Proriol Serre ¹
11.20	Dr. Eng. Jonathan Cormier Institut Pprime & ISAE-ENSMA, Futuroscope - Chasseneuil, France	INFLUENCE OF HIP POST-TREATMENT ON MICROSTRUCTURE AND DENSITY OF SILICON CARBIDE SINTERED BY SPS Florimond Delobel ^{1,2} , Dr Sébastien Lemonnier ¹ , Dr Elodie Barraud ¹ , Dr Julien Cambedouzou ^{2,3} ISL, 68301 Saint-Louis Cedex, France, ² ENSCM, 34000 Montpellier, France, ³ ICSM, UMR 5257 CEA/ CNRS/ENSCM/Université de Montpellier, 30207	[†] Materials Mechanics Group, Civil and Environmental Engineering, Darmstadt, Germany, [‡] Institute of Plant Engineering and Fatigue Analysis, Clausthal, Germany	'Unité Matériaux Et Transformations - UMR Université Lille 1/CNRS/INRA/ENSCL, Lille University - 59655 Villeneuve d'Ascq, France
	3D DISCRETE DISLOCATION DYNAMICS STUDY OF CREEP BEHAVIOR IN NI-BASE SINGLE CRYSTAL SUPERALLOYS BY A COMBINED DISLOCATION CLIMB AND VACANCY DIFFUSION MODEL	Bagnols-sur-Cèze Cedex, France ELASTIC PROPERTIES OF TIZAIC AND TIZSIC2 MAX PHASE FOAMS WITH CONTROLLED POROSITY AND PORE SIZE PRODUCED BY POWDER METALLURGY	ANALYSIS OF RELEVANCE OF MONOTONIC PROP- ERTIES FOR ESTIMATION OF STRAIN-LIFE FATIGUE PARAMETERS	A STUDY OF LOW CYCLE FAGIUE LIFE AND ITS COR RELATION WITH MICROSTRUCTURAL PARAMETERS IN IN713C NICKEL BASED SUPERALLOYS
11.40	Dr. Siwen Gao ¹ , Prof. Dr. Marc Fivel ² , Dr. Anxin Ma ³ , Prof. Dr. Alexander Hartmaier ¹	Ms Beatriz Velasco ¹ , Dr. Elena Gordo ¹ , Dr. Liangfa Hu ² , Dr. Miladin Radovic ² , <u>Dr. Sophia A. Tsipas</u> ¹	Tea Marohnić ¹ , D. Sc. Robert Basan ¹	Mr Jordi Salvat Canto ¹ , Mr Sean Winwood ² , Ms Katie Rhodes ² , Soran Birosca ¹
	Interdisciplinary Centre For Advanced Materials Simulation (ICAMS)), Bochum, Germany, "University Grenoble Alpes/CNRS, SIMaP-GPM2, Grenoble, France	"Departamento de Ciencia e Ingeniera de Materiales e Ingeniería Química, IAAB, Universidad Carlos III de Madrid, Leganes 28911, Spain, "Materials Science and Engineering, Texas A&M University, College Station TX77843, United States of America	'Faculty Of Engineering, University Of Rijeka, Rijeka, Croatia	¹ Materials Research Centre, College of Engineering, Swansea University, Swansea, United Kingdom, ² Cummins Turbo Technologies, Huddersfield, United Kingdom
12.00	EARLY DISLOCATION PROCESSES DURING LOW TEM- PERATURE (< 800°C) AND HIGH STRESS (> 600 MPA) CREEP OF NI-BASE SINGLE CRYSTAL SUPERALLOYS	SYNTHESIS OF MESOPOROUS SIC BY HARD-TEMPLATE	RESEARCH ON THE FATIGUE STRENGTH OF EN AW 1370 WIRES USED FOR OVERHEAD POWER LINES	FATIGUE GOVERNED BY MICROSTRUCTURE IN NANOSTRUCTURED BAINITE
	Prof. Antonin Dlouhy', <u>Prof. Gunther Eggeler</u> ', Dr. Xiaoxiang Wu', Dr. Philip Wollgramm', Dr. Christof Somsen', Dr. Aleksander Kostka', MSc. David Bürger'	Professor Javier Narciso ¹ . Doctor Mario Caccia ¹ . Master Adrian Ortega ¹ . Doctor Jaime Garcia-Aguilar ¹	M.Sc. Bartosz Jurkiewicz ¹ , Prof. Tadeuusz Knych ¹ , Prof. Beata Smyrak ¹ , M.Sc. Matgorzata Zasadzińska ¹ ,	Dr. Lucia Morales-rivas¹, Inga Mueller¹, Rosalia Re- menteria³, Dr. Matthias Kuntz³, Dr. Thomas Sourmai Dr. Francisca G. Caballero², Dr. Carlos Garcia-Mateo Dr. Eberhard Kerscher¹
	¹ Ruhr-Universität Bochum, Bochum, Germany, ² Institute of Physics of Materials, ASCR, Brno, Czech Republic	¹Alicante University, Alicante, Spain	M.Sc. Marek Gnietczyk¹ 'AGH University Of Science And Technology, Kraków, Polska	¹ TU-Kaiserslautern, Germany, ² CENIM-CSIC, Spain, ³ Robert Bosch GmbH, Germany, ⁴ Asco Industries CREAS, France
	CREEP DISLOCATION STRUCTURE UNDER SLOW STRAIN RATE TENSILE TESTING IN SINGLE CRYSTAL NICKEL BASE SUPERALLOY AT 750°C	GRAPHITIZATION OF SIC PARTICLES BY LASERS AND THEIR APPLICATION AS ANTI-BALLISTIC MATERIALS	FATIGUE OF CASE HARDENED DIESEL INJECTION PARTS UNDER ELEVATED TEMPERATURES	MECHANISM- AND MICROSTRUCTURE-BASED CHARACTERISATION OF THE CYCLIC DEFORMATION AND FRACTURE BEHAVIOR OF THE ALUMINUM CAS ALLOY EN AC-ALSI7MG0.3
12.20	Dr Olivier Messe ¹ , Mr Ming Wangkoh ¹ , Dr Neil Jones ² , <u>Prof Cathie Rae</u> ¹	Mrs Aspasia Antonelou'. Dr Vassileios Drakopoulos'.	DrIng. Andreas Diemar ¹ , DiplIng. Andreas Klee-mann ¹ , DrIng. Susanne Kleemann ¹ , <u>Prof. DrIing.</u> <u>Joachim W. Bergmann¹</u>	Jochen Tenkamp¹, Stephan Knorre², Prof. Dr. Ulrich Krupp², Prof. Dr. Wilhelm Michels², Prof. Dr. Frank Walther¹
	¹ University Of Cambridge, Cambridge, United Kingdom, ² Rolls Royce plc., Derby, United Kingdom	Dr Spyros N. Yannopoulos¹ 'Foundation for Research and Technology – Hellas, Institute of Chemical Engineering Sciences, (FORTH/ ICE-HT), P.O. Box 1414, GR-26504, Rio-Patras, Greece, Patras, Greece	'MFPA Weimar, Weimar, Germany	¹ TU Dortmund University, Department of Materials Te Engineering (WPT), Dortmund, Germany, ² University of Applied Sciences Osnabrueck, Institute of Material Design and Structural Integrity, Osnabrueck, German
12.40	EVOLUTION BEHAVIOR OF SECONDARY REACTION ZONE DURING CYCLIC THERMAL FATIGUE IN A SINGLE CRYSTAL SUPERALLOY, CMSX-4	MICROSTRUCTURAL ANALYSIS OF TITANIUM MATRIX COMPOSITES WITH 40 AND 50 VOL.% TITANIUM CARBIDE CONTENT PRODUCED BY A COMBINATION OF SELF PROPAGATING HIGH TEMPERATURE SYNTHESIS AND SPARK PLASMA SINTERING	NUMERICAL DETERMINATION OF THE ENDURANCE LIMIT OF AUTOFRETTAGED COMPONENTS WITH RESPECT TO CYCLIC PLASTICITY AND TEMPERATURE EFFECTS	THERMOMECHANICAL FATIGUE BEHAVIOUR OF AGED HEAT RESISTANT AUSTENITIC ALLOYS MSc Hugo Wärner ¹ , Phd Mattias Calmunger ¹ , Adjun professor Guocai Chai ¹² , Professor Sten Johansson ¹
	Mr. Joong Eun Jung1, Mr. In Soo Kim¹, Mr. Baig Gyu Choi¹, Mr. Jeonghyeon Do¹, Mr. In-yong Jung¹, Mr. Chang Yong Jo¹	Dr Andrew Norman ¹ , Dr. Martina Meisnar ¹ , Dr. Miguel Lagos ² , Dr. Iñigo Agote ² , Dr. Laurent Pambaguian ¹	Darko Panic ¹ , <u>Prof.Dr-Ing. Michael Vormwald</u> ¹	Professor Johan Moverare 'Department of Management and Engineering, Linköping University, Linköping, Sweden, 'AB Sandvi Materials Technology R&D Center, Sandviken, Swede
	'Korea Institute Of Materials Science (KIMS), Changwon-si, South Korea		¹ Technische Universität Darmstadt, Materials Mechanics Group, Darmstadt, Germany	, голения тесникнуу кар бенен, Зиничкен, Swede.



Symposium	Al ZUI/	C2	C6	D2
Room	Friends of Music Hall/M1	Conference Room 4/M1	I-15/M1	Museum Hall /M2
Session Title	Coatings and thin films 1/6 - Friction	Laser Induced Forward Transfer	Welding 1	Metals & Ceramics I: Interfacial structures and Phenomena
Chairperson	Albano Cavaleiro, Ru Peng	Robert Eason	Christof Sommitsch	Frank Mücklich
11.00	KEYNOTE/INVITED CAN WE DESIGN FRICTIONLESS MATERIAL?	KEYNOTE/INVITED USING LIFT FOR PRINTING HYBRID ELECTRONICS	KEYNOTE/INVITED MICROSTRUCTURE STABILITY DURING CREEP OF FRICTION STIR WELDED AA2024-T3 ALLOY	KEYNOTE/INVITED SOLUTE FIELDS AND GRAIN BOUNDARY MOTION
	Mr Tomas Polcar ¹	Dr. Alberto Pique¹	Prof. Michael Regey ¹ , Prof. Stefano Spigarelli ²	Professor Wayne Kaplan¹, Ruth Moshe¹, Hadas Sternlicht¹, Ran Akiva¹, Dr. Rachel Marder¹
11.20	¹ University of Southampton, Southampton, UK	¹ U.S. Naval Research Laboratory, Washington, United States	¹Ort Braude College, Karmiel, Israel, ²Dipartimento di Meccanica, Università Politecnica delle Marche, Ancona, Italy	¹Technion - Israel Institute of Technology, Haifa, Israel
	ADHESION AND TRIBOLOGICAL PERFORMANCE OF HARD CAPVD COATINGS	HIGHLIGHT MICRO/NANO DIGITAL PRINTING OF METAL STRUCTURES	MICROSTRUCTURAL AND MECHANICAL PROPERTIES OF FRICTION STIR WELDED DISSIMILAR STRUCTURAL STEEL	A TRANSMISSION ELECTRON MICROSCOPY STUDY OF PRECIPITATE PHASES THAT FORM AT 95°C AND 250°C IN A HEAT EXCHANGER ALLOY
11.40	Gülşah Aktaş Çelik', Fountas Konstantinos², Şaban Hakan Atapek', Helen Kamoutsi², Şeyda Polat', Anna D. Zervaki²	<u>Dr Philippe Delaporte</u> ¹, Mr Qingfeng Li¹, Dr Daniel Puerto¹, Dr David Grojo¹, Dr Anne-Patricia Alloncle¹	Prof. Dr. Tevfik Kucukomeroglu ¹ , Lecturer Semin Mahmut AKTARER, Research Assistant Dursun Murat ŞEKBAN, Assistant Professor Doctor Güven İPEKOĞLU, Professor Gürel ÇAM	Dr. Calin Daniel Marioara ¹ , Dr. Emmanuel Hersent ² , Dr. Anders Oskarsson ³
	¹ Kocaeli University, Kocaeli, Turkey, ² University of Thessaly, Volos, Greece	¹LP3 Laboratory - CNRS - Aix - Marseille University, Marseille, France	'Karadeniz Technicel University, Trabzon, Turkey	¹ Sintef Materials And Chemistry, Trondheim, Norway, ² Gränges Sweden AB Applied R&D, Finspång, Sweden, ² Gränges AB Strategic R&D, Finspång, Sweden
	DEVELOPING NANO-LAYERED COATINGS FOR APPLICATION ON HIGH SPEED CUTTING TOOLS	LASER INDUCED FORWARD TRANSFER OF Cu INK: PRINTING AND JETTING STUDIES	A CONTRIBUTION FOR UNDERSTANDING THE BOND FORMATION MECHANISM OF FRICTION WELDED JOINTS	SITE-SPECIFIC CHARACTERIZATION OF GRAIN BOUNDARY SEGREGATION DURING THE EVOLUTION OF PRIMARY RECRYSTALLIZATION IN A TERNARY Fe-Si-Sn ALLOY
12.00	Wang Qimin¹	MSc Marina Makrygianni ¹ , BSc Agamemnonas Kalaitzis ¹ , Dr Antonios Hatziapostolou ² , Dr Ioanna Zergioti ¹	Eric Heppner ¹ , Christoph Rößler ¹ , Markus Körner ¹ ,	Nikolas Mavrikakis¹², Dr. Myriam Dumont¹, Dr. Dominique Mangelinck¹, Marion Descoins¹, Dr. Wahib Saikaly³
	School Of Electromechanical Engineering. Guangdong University Of Technology, Guangzhou, P.r. China, China	¹ National Technical University of Athens, Zografou, Athens, Greece- ² Technological Educational Institute of Athens, Department of Energy Technology Engineering, Aigaleo, Athens, Greece	Professor Elmar Woschke ¹ , Doctor of Engineering David Schmicker ² 'Otto-von-guericke University Magdeburg, Magdeburg, Germany, 'Sampro GmbH, Magdeburg, Germany	'Aix-Marseille Université, CNRS, IM2NP UMR 7334, Marseille, France, *ArcelorMittal Research SA, Maizières-Eis-Metz, France, *ArcelorMittal Global R&D Gent, Belgium
	EFFECT OF PERIOD ON PROPERTIES OF TIO.54AIO.46/ TIO.54AIO.46N MULTILAYER COATINGS DEPOSITED BY REACTIVE GAZ PULSING PROCESS	HIGHLIGHT DIRECT EVIDENCE OF THE BUBBLES INVOLVED IN THE LASER INDUCED FORWARD TRANSFER DYNAMICS	MICROSTRUCTURE IDENTIFICATION AND LOCAL MECHANICAL PROPERTIES OF A LINEAR FRICTION WELD OF TI-5AL-2Sn-2Zr-4Mo-4Cr (T117) WITH A WIDMANSTÄTTEN MICROSTRUCTURE	CHARACTERIZATION OF FINE INTERFACIAL STRUCTURES IN THE DIAMOND COATING ON THE ALLOY SUBSTRATES
12.20	Dr Marie-José Pac¹, Dr Sylvain Giljean¹, PhD Yoann Pinot¹, Dr Christophe Rousselot², Dr Patrick Delobelle³, Pr Marie-Hélène Tuilier¹	Dr. Michael Zenou', Dr Tal Verdene ¹	Dorick Ballat-durand¹, Salima Bouvier¹, Jerome Delfosse², Marion Risbet¹	Professor Lianlong He ¹ , Dr Xiaoju Li ¹ , Dr Yuanshi Li ²
	Université de Haute Alsace, Laboratoire de Physique et Mécanique Textiles, Mulhouse, France, Université de Franche-Comté, FEMTO-ST/MN2S, Montbéliard, France, Université de Franche-Comté, FEMTO-ST/DMA, Besançan, France	¹10-tech ,Jerusalem, Israel	[†] Université De Technologie De Compiègne Laboratoire Roberval, Compiègne, France [‡] Hard Alloys & Processes, Suresnes, France	Institute Of Metal Research, CAS, Shenyang, China, Plasma Physics Laboratory, University of Saskatchewan, Saskatoon, Canada
	HIGHLIGHT NON-REACTIVELY SPUTTERED ULTRA-HIGH TEMPERATURE TA-C COATINGS	PRINTING WITH LIGHT	JOINING OF MARINE STEELS BY SEVERE PLASTIC DEFORMATION-INDUCED FRICTION STIR WELDING	NANOSTRUCTURE AND COMPOSITIONAL PROFILING IN EPITAXIAL Fe/MgO/Pt ULTRA-THIN FILMS
12.40	Dr. Helmut Riedl', Dl Heloise Lasfargues', Thomas Glechner', Dr. Valentina Paneta', Prof. Daniel Primetzhofer', Dr. Szilard Kolozsvári ² , Dr. David Holec', Prof. Paul Mayrhofer' 1 TU Wien, Institute of Materials Science and Technology.	Dr. Gari Arutinov!, Merijn Giesbers!, Guy Bex!, Rob Hendriks², Dr. Ir. Jeroen van den Brand¹	PhD Student Murat Sekban¹, Prof.Dr. Gencaga Purcek²³, PhD Student Semih Aktarer⁴, Prof.Dr. Tevfik Kucukomeroglu²	Dimitrios Karfaridis¹, Dr. Konstantinos Simeonidis¹, Nikolaos Pliatsikas¹, Laura Mihalceanu², Sascha Keller², Dr. George P. Dimitrakopulos¹, Dr. Thomas Kehagias¹, Dr. Evangelos Th. Papaioannou², Dr. George Vourlias¹
	Wien, Austria, *Uppsala University, Department of Physics and Astronomy, Uppsala, Sweden, *Plansee Composite Materials GmbH, Lechbruck am See, Ger- many, *Montanuniversität Leoben, Department Physical Metallurgy and Materials Testing, Leoben, Austria	¹ Holst Centre, Eindhoven, Netherlands, ² NovaCentrix, Austin, United States	"Department of Naval Architecture and Marine Engineering, Karadeniz Technical University, Trabzan-Turkey, Trabzan. Turkey, "Department of Mechanical Engineering, Karadeniz Technical University, Trabzan-Turkey, Trabzan, Turkey, "Engineering Faculty, Giresun University, Giresun, Turrkey, "Department of Automotive Technology, RecepTayyip ErdoganUniversity, Rize-Turkey, Rize, Turkey	'Department of Physics, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, 'Departmen of Physics and National Research Center OPTIMAS, Technical University of Kaiserslautern, 67663 Kaiserslautern, Germany



Symposium	D4	D9	E1	E2
Room	Library Hall/M2	Maurice Saltiel Hall I/M2	CR II Hall/M2	CR III Hall/M2
Session Title	Mechanical testing at micro/nano scales - Deformation Mechanisms I	Introduction and Advanced Nuclear Steels	Polymer Electrolyte Membranes	Na and Metal Batteries
Chairperson	Christophe Pinna & Eric Le Bourhis	J. Kalivodová and M. Bertolus	Maria Luisa Di Vona & Ioannis Kallistis	I. Nicotera
	KEYNOTE/INVITED COMPETING MECHANISMS BETWEEN DISLOCATION AND PHASE TRANSFORMATION IN PLASTIC DEFORMATION OF YTTRIA-STBEILIZED TETRAGONAL ZIRCONIA NANOPILLARS	THE JOINT PROGRAMME ON NUCLEAR MATERIALS OF THE EUROPEAN ENERGY RESEARCH ALLIANCE — COORDINATIOR RESEARCH ON GENIV NUCLEAR REACTOR MATERIALS FOR A LOW-CARBON ENERGY EUROPE	KEYNOTE/INVITED HYDROCARBON, SOLID POLYMER ELECTROLYTES FOR ACIDIC AND ALKALINE ELECTROCHEMICAL DEVICES	KEYNOTE/INVITED Na-ION BATTERIES
11.00		Dr. Lorenzo Malerba', Dr. Massimo Angiolini ² , Dr. Marjorie Bertolus ³ , Dr. Angelika Bohnstedt ⁴ , Dr. Jana Kalivodová ⁵ , Dr. Karl-Fredrik Nilsson ⁴ , Dr. Cris- telle Pareige ⁷ , Dr. Marta Serrano ⁸ , Dr. Joseph Somers ⁹	Prof. Steven Holdcroft	Prof. Stefano Passerini
	Dr. Mohsen Asle Zaeem ¹ , Dr. Ning Zhang	SCK-CEN, Mol. Belgium, [*] ENEA, Casaccia, Italy, [*] CEA- DEN, Cadarache, France, 4KIT, Karlsruhe, Germany, *CVR, Rez, Czech Rep. [*] JRC, Petten, The Netherlands, *GFM/CNRS, Rouen, France, *CIEMAT, Madrid, Spain, *JRC, Karlsruhe, Germany		
		UNDERSTANDING OF RADIATION EFFECTS AND DAMAGE IN NUCLEAR REACTORS MATERIALS USING JANNUS ION BEAMS		
11.20	¹ Missouri University of Science and Technology, Rolla, United States	<u>Dr Celine Cabet</u> ¹ , Dr Aurélie Gentils ²	¹Simon Fraser University, Burnaby, Canada	KIT-HIU, Ulm, Germany
		¹ CEA, Gif-sur-yvette, France, ² CSNSM, Orsay, France		
	IN-SITU TEM CHARACTERIZATION OF DEFORMATION INDUCED MARTENSITIC TRANSFORMATION IN	KEYNOTE/INVITED IMPROVEMENT OF HIGH TEMPERATURE STRENGTH	SELF CROSS-LINKED QUATERNARY PHOSPHONIUM BASED ANION EXCHANGE MEMBRANES	ION DIFFUSION IN TUNNEL-STRUCTURED Nao.44Mn0 ² CATHODE MATERIAL FOR NAION BATTERIES
11.40	STAINLESS STEEL 304	OF CONVENTIONAL GRADE 91 STEEL BY THERMO- MECHANICAL TREATMENTS	Pileas Papakonstantinou¹, Giota Aleksopoulou¹, Assist. Professor Valadoula Deimede¹	Chiara Ferrara, Piercarlo Mustarelli, E. Quartarone, Cristina Tealdi
	<u>Djamel kaoumi</u> ¹ , Junliang Liu ²		¹University of Patras, Patras, Greece	Department of Chemistry and INSTM,
	¹ North Carolina State University, Raleigh, United States, ² University of South Carolina, Columbia, United States	Dr. Marta Serrano García ¹ . Dr Mercedes Hernan- dez-Mayoral ¹ . Mr Javier Vivas ² , Dr Carlos Capdevila ² . Dr Jan Duzgan ³		University of Pavia. Italý Viale Taramelli 16. 27100 Pavia. Italy
	MICRO-PLASTICITY CHARACTERIZATION OF MARTENSITE, FERRITE, AND DUAL - PHASE STEEL	¹ Ciemat, Madrid, Spain, ² Centro Nacional de Investi-	COMPOSITE ANIONIC MEMBRANES BASED ON POLYSULFONE AND LAYERED DOUBLE HYDROXIDES	EXPLORING THE NI REDOX ACTIVITY IN POLYANIONIC COMPOUNDS AS CONCEIVABLE HIGH POTENTIAL CATHODES FOR Na RECHARGEABLE BATTERIES
	dr.ir. Johan Hoefnagels ¹ , dr. Chaowei Du ¹ ,	gaciones Metalúrgicas (CENIM-CSIC), Avda Gregorio del Amo, 8; Madrid, E-28040, Spain, ³ COMTES FHT a.s. Průmyslová 995, 334 41 Dobřany, Czech Ropublic		
12.00	prof.dr.ir. Marc Geers	Ciemat, Madrid, Spain, *Centro Nacional de Investi- gaciones Metalurgicas (CEMIM-CSIC), Avda Gregario del Amo. 8. Madrid, E-28040, Spain, *COMTES FHT a.s., Průmyslová 995, 334 41 Dobřany, Czech Republic	<u>Dr. PhD Riccardo Narducci</u> ^{1,2,3} . Prof. Philippe Knauth ^{2,3} . Prof. Maria Luisa Di Vona ^{1,3}	Mr. Huang Zhang ¹² , Dr. Ivana Hasa ¹² , Dr. Daniel Buchhotz ¹² , Mr. Bingsheng Qin ¹² , Dr. Dorin Geiger ³ , Dr. Sangsik Jeong ¹² , Prof. Ute Kaiser ³ , Prof. Stefano Passerini ¹²
	¹ Eindhoven University of Technology, Eindhoven, the Netherlands		¹ Università Degli Studi Di Roma Tor Vergata (URoma2), Department of Industrial Engineering, Rome, Via del Politecnico I. 00133. Italy, ² dix Marseille Università (AMU), CNRS, Madirel (UMR 7246), Electrochemistry of Materials Group, Marseille, Compus SJ. Jérôme, 13397, France, ³ International Associated Laboratory (L.I.A.), Ionomer Materials for Energy (AMU, CNRS, URoma2), Marseille, Rome, France, Italy	¹ Helmholtz institute Ulm, Ulm, Germany, ² Karlsruhe Institute of Technology, Karlsruhe, Germany, ³ Central Facility of Electron Microscopy, Electron Microscopy Group of Materials Science. University of Ulm, Ulm, Germany
	THE EFFECT OF Y ADDITION ON THE DEFORMATION OF Mg BY MICRO-PILLAR COMPRESSION	KEYNOTE/INVITED DEFORMATION MECHANISMS IN ODS ALLOYS: RECENT HIGHLIGHTS OBTAINED WITHIN THE MATISSE PROGRAM	CROSS-LINKED POLYMER ELECTROLYTE MEMBRANES FOR HT-PEMFCs	ADVANCED BIFUNCTIONAL CATALYST BASED ON NOVEL ELECTROSPUN CARBON NANOFIBERS DECORATED WITH THE COO-CO REDOX SYSTEM FOR ALKALINE METAL-AIR BATTERIES
12.20	Dr Jing Wu ¹ , Ms Shanshan Si ¹ , Dr YuLung Chiu ¹	Doctor Joël Malaplate ¹ , Doctor Mickaël Dadé ^{1,2} , Doctor Yann Decarlan ¹ , Doctor Frédéric Mompiou ² , Doctor Daniel Caillard ³ , Doctor Ankur Chauhan ⁴ , Doctor Jarir Aktaa ⁴ , Doctor Mercedes Hernandez-Mayoral ⁵ ,	Ms Aikaterini Andreopoulou¹², Ms Rafaela Nannou¹, Mr Konstantinos Kallitsis¹, Mr Joannis Kallitsis¹²	Dr. Vincenzo Baglio ¹ , Dr. Cinthia Alegre ¹ , Dr. Concetta Busacca ¹ , Dr. Orazio Di Blasi ¹ , Ms. Esterina Modica ¹ , Dr. Vincenzo Antonucci ¹ , Dr. Antonino Aricò ¹ , Dr. Alessandra Di Blasi ¹
	¹ University of Birmingham, United Kingdom	Doctor Elvira Oñorbe Esparraguera ⁵ , Doctor Marta Serrano Garcia ⁵	¹ University Of Patras, Department Of Chemistry, University Campus, Greece, ² FORTH/ICEHT, Platani Patras, Greece	¹Cnr-Istituto di Tecnologie Avanzate per l'Energia "Nicola Giordano", Messina, Italy
	A VARIANCE OF PLASTIC DEFORMATION MECHA- NISMS IN DIFFERENT GRAIN TYPES OF ULTRAF- INE-GRAINED ALUMINIUM	¹ DEN-Service de Recherches Métallurgiques Appliquées, CEA, Université Paris-Saclay, F-91191 Gif- Sur-Yvette, France, ² MINES ParisTech, PSL Research	PROGRESS ON ELECTRODE INTERFACE STRUCTURE MODIFICATION FOR PROTON EXCHANGE MEMBRANE FUEL CELLS	LITHIUM BATTERIES FOR AUTOMOTIVE AND STATIONARY APPLICATIONS: RESULTS FROM TESTS CAMPAIGN
12.40	<u>Witold Chrominski</u> ¹ , Prof. Malgorzata Lewandowska ¹	University. Centre des Matériaux, CNRS UMR 7633. BP 87, 9103. Evry Cedex, France, ² Centre d'Elaboration des Matériaux et d'Etudes Structurales, BP 94347, 31055 Toulouse Cedex 4, France, ² Institute for Applied Materials, Karlsruhe Institute of Technology (KIT).	Mr. Morten Gildsig Poulsen¹, Dr. Mikkel Juul Larsen², Dr. Shuang Ma Andersen¹	Dr Francesco Sergi¹, Dr Giovanni Brunaccini¹, Dr Davide Aloisio¹, Nico Randazzo¹, Dr Marco Ferraro¹, Dr Laura Andaloro¹, Dr Vincenzo Antonucci¹
	¹ Warsaw University of Technology, Faculty of Materials Science and Engineering, Warsaw, Poland	Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein Leopoldshafen, Germann Elvisión de Materiales de Interés Energético, Centro Investigaciones Medioam- bientales y Tecnológicas (CIEMAT), Avda. Complutense 40, 20040 Madrid, Spain	¹ University Of Southern Denmark, Odense, Denmark, ² EWII Fuel Cells A/S, Odense, Denmark	[†] Cnr-itae, Messina, Italy

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Symposium	E8	F1 F4	
Room	Rehearsal Room 5.17/M1	3-20/M1	3-21/M1
Session Title	Photovoltaics-New Materials I	Hydrogels for Tissue Engineering	Surface Modification Methods for Biomaterials
Chairperson	João Manuel de Almeida Serra	Antonio Salinas	Pieter Cools
11.00	HIGH PRESSURE INDUCED PHASE TRANSFORMATIONS OF Cs ₂ SnX ₄ PEROVSKITES STUDIED VIA RAMAN SPECTROSCOPY Dr. Andreas Kaltzoglou¹, M. Sc. Maria Karnachoriti², Dr. Giannis Bounos¹, Dr. Athanassios Kontos¹, Prof. Yannis Raptis², Dr. Polycarpos Falaras¹	KEYNOTE/INVITED INTRACELLULAR DELIVERY OF POLYETHYLENIMINE COATED-RNASE A LOADED NANOGELS FOR CANCER THERAPY	HIGHLIGHT DESIGN AND SURFACE ANALYSIS OF ANTIMICROBIAL COATINGS
	¹ National Center for Scientific Research "DEMOKRITOS", Athens, Greece, ² Faculty of Applied Sciences, National Technical University of Athens, Athens, Greece	Neda Kordalivand ¹ , Dandan Li ¹ , Nataliia Beztsinna ¹ , Enrico Mastrobattista ¹ , Rene van Nostrum ¹ , Tina Vermonden ¹ , <u>Wim E. Hennink¹</u>	Prof Hans Griesser ¹
11.20	CORRELATIVE TRANSMISSION EBSD-APT ANALYSIS OF GRAIN BOUNDARIES IN Culfn.Ga)Se ² AND Cu ² Ta-SnSe ⁴ BASED THIN-FILMS Dr. Torsten Schwarz ¹ , M. Sc. Guillaume Stechmann ¹ , Dr. Baptiste Gault ¹ , Dr. Oana Cojocaru-Mirédin ¹ 2, Dr. Pyuck-Pa Choi ² , Dr. Alex Redinger ⁴ , Prof. Susanne Siebentrit ⁴ , Prof. Dierk Raabe ¹ "Max-planck-institut Für Eisenforschung GmbH, Düsseldorf, Germany, ² RWTH Aachen, Aachen, Germany, ³ Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea, 'University of Luxembourg	¹ Department of Pharmaceutics, Utrecht Institute for Pharmaceutical Sciences, Utrecht University, Utrecht, Netherlands	¹ University Of South Australia, Adelaide, Australia
	GROWING AND CHARACTERIZING SELF-ORGANIZING ALUMINIUM NANOWIRES IN AMORPHOUS SILICON	DEVELOPMENT OF NOVEL TISSUE-ENGINEERING ALGINATE SCAFFOLDS TO AMELIORATE POST-MYOCARDIAL INFARCTION ELECTROPHYSIOLOGIC REMODELING	SURFACE PROPERTIES IMPROVEMENT OF PEEK BY MULTI-CHARGED ION IMPLANTATION: DETAILS ON MICROSTRUCTURE AND TRIBOLOGY
11.40	PhD Annett Thogersen', PhD Ingvild J. Thue Jensen', PhD Marit Stange', PhD Ole Martin Lovvik', PhD Alexander G. Ulyashin', PhD Spyros Diplas'	Dr. Eleonora Barka ¹² , Dr. Marianthi Kontonika ²³ , Dr. Eleni Bagli ⁴ , Dr. Dimitrios Kouroupis ⁴ , BSc Maria Markou ⁴ , Dr. Agapi Vilaeti ²³ , BSc Maria Roumpi ¹² , Dr. Demetrios Papayannis ¹ , Dr. Theodoros Fotsis ⁴ , Dr. Theofillos Kolettis ²³ , Dr. Simeon Agathopoulos ⁴	Dr Massoud Dadras ¹ , <u>Dr Olha Sereda</u> ¹, Dr Kaushik Vaideeswaran¹, Dr Christophe Yamahata²
	¹ SINTEF Materials and Chemistry, Oslo, Norway	'Ceramics & Composites Laboratory, Dept. of Materials Science and Engineering, University of Ioannina, Ioannina, Greece, 'Cardiovascular research institute, Ioannina & Athens, Greece, 'Cardiology Dept., School of Medicine, University of Ioannina, Ioannina, Greece, 'Foundation for Research & Technology-Hellas, Institute of Molecular Biology and Biotechnology, Ioannina, Greece	¹ Csem, Material Science, Neuchatel, Switzerland, ² IDONUS, Hauterive, Switzerland
		SYNTHETIC EXTRACELLULAR MATRICES BASED ON MICROPOROUS ORGANOGELS	SURFACE TREATMENT OF POLYMERS BY ATMOSPHERIC PLASMA AND GRAFT POLYMERIZATION OF ACRYLIC ACID TO IMPROVE HYDROXYAPATITE DEPOSITION
12.00		Sophie Franceschi ¹ . Emile Perez ¹	Ms I-Yun Cheng ¹ , Professor Ko-shao Chen ¹ , <u>Mr Wei-Yu Chen</u> ² , Professor Allan Matthews ³
		¹ Laboratoire des IMRCP, France	¹ Department of Materials Engineering, Tatung University, Taipei, Taiwan, ² Department of Materials Science and Engineering, University of Sheffield, Sheffield, UK, ³ School of Materials, University of Manchester, Manchester, UK
		LATERAL ARRANGEMENT OF PHOSPHOLIPID MONOLAYERS AS INFLUENCED BY THE ADSORPTION OF HYALURONAN AND THE EFFECT OF HYDROSTATIC PRESSURE	IMPROVING THE SURFACE PROPERTIES OF AN UHMWPE SHOULDER IMPLANT WITH AN ATMOSPHERIC PRESSURE PLASMA JET
12.20		Dr D.C. Florian Wieland ¹ , Dr Thomas Zander ¹ , Dr Vasyl Garamus ¹ , Dr Andra Dedinaite ² , Prof Per Claesson ² , Prof Regine Willumeit-Römer ¹	Stijn Van Vrekhem ¹ , Karen Vloebergh ¹ , Chris Vercruysse ² , Heidi Declercq ² , Alexander Van Tongel ³ , Nathalie De Geyter ¹ , Rino Morent ¹
		¹ Helmholtz Zentrum Geesthacht, Hamburg, Germany, ² KTH Royal Institute of Technology, Stockholm, Sweden	Research Unit Plasma Technology, Department of Applied Physics. Faculty of Engineering and Architecture. Ghent University, Ghent. Belgium. 'Tissue Engineering Group, Department of Basic Medical Sciences. Faculty of Medicine and Health Sciences. Ghent University, Ghent. Belgium. 'Department of Orthopedic Surgery and Traumatology, Ghent University Hospital, Ghent. Belgium
		CELLULOSE NANOFIBRILS AS SCAFFOLDS OR TISSUE ENGINEERING	COMPARISON OF PLASMA-SPRAYED BIOACTIVE COATINGS DEPOSITED FROM DIFFERENT FEEDSTOCKS
12.40		Prof. Kristin Syverud ^{1,2} , Dentist Ahmad Rashad ³ , PhD Ellinor Heggset ¹ , Prof. Kamal Mustafa ³	Mr. Eugeni Cañas ¹ , Dr. Mónica Vicent ¹ , Dr. María José Orts ¹ , Dr. Aldo R. Boccaccini ² , Dr. Enrique Sánchez ¹
		¹PFI ,Trondheim. Norway. ²NTNU. Trondheim. Norway. ²University of Bergen. Bergen. Norway	'Instituto de Tecnología Cerámica (ITC), Asociación de Investigación de las Industrias Cerámicas (AICE), Universitat Jaume I (UJI), Av. Sos Baynat s/n, 12006, Castellán, Spain, 'Institute de Biomaterials, Department of Materials Science and Engineering, University of Erlangen-Nuremberg (FAU), Cauerstrasse 6, 91058, Erlangen, Germany
		INJECTABLE HYALURONIC ACID BASED HYDROGELS FOR CARTILAGE REPAIR	IN-VITRO STUDY OF THE BIOACTIVITY AND BIOLOGICAL RESPONSE OF POWDER METALLURGY MODIFIED TI SURFACES Dip-Ing. Julia Ureña¹, <u>Dr. Sophia Tsipas¹</u> , Prof-Dr. Antonia Jiménez-Morales¹,
13.00		Ms Evgenia Tsanaktsidou ¹² , Dr Olga Kammona ² , Professor Emeritus Costas Kiparissides ¹²	Prof-Dr. Elena Gordo ¹ , DrIng. Rainer Detsch ² , Prof. DrIng. habil. Aldo R. Boccaccini ² 'University Carlos III of Madrid, Department of Materials Science and
		Department of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece, Chemical Process & Energy Resources Institute, Centre for Research and Technology-Hellas, Thessaloniki, Greece	Engineering, IAAB. Avda. Universidad 30, 28911, Leganés, Spain, 'Institute of Biomaterials, Department of Materials Science and Engineering, University of Erlangen-Nuremberg, 91058, Erlangen, Germany
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Symposium	H1	H2	нз
Room	I -16/M1	Conference Room 2/M1	Conference Room 3
Session Title	Accelerating Materials Discovery	Bauxite Residue Valorization	Introuduction and theoretical approaches
Chairperson	Patrice Turchi	Joohno Lee. Zhang Yanling	Alessandra Hool, Guido Sonnemann
	KEYNOTE/INVITED EMERGING TECHNOLOGIES AND CRITICAL MATERIALS	CURRENT TRENDS ON SCANDIUM HYDROMETALLURGICAL EXTRACTION FROM BAUXITE RESIDUE	CRITICALITY OF STRATEGIC RESOURCES
11.00		Mr Panagiotis Davris¹, Dr Efthymios Balomenos², Professor Dimitrios Panias¹, Professor Ioannis Paspaliaris¹	Armin Reller ^{1,2}
	Dr. Alexander King ¹	¹National Technical University Of Athens, Athens, Greece, ²Aluminium of Greece, Ag. Nikolaos Plant, Viotia, Greece	¹ Chair of Resource Strategy, University of Augsburg, Universitätstrasse1a, D-86159, Augsburg, Germany, ² IWKS, Fraunhofer Project Group Materiats Recycling and Resource Strat., D-63755, Alzenau, Germany
		AN INTEGRATED PROCESS TO RECOVER IRON, TITANIUM SCANDIUM AND RARE EARTHS FROM BAUXITE RESIDUE	INTEGRATING CRITICALITY ASPECTS INTO LIFE CYCLE SUSTAINABILITY ASSESSMENT - FIRST METHODOLOGICAL DEVELOPMENTS AND CASE STUD
11.20	¹ Critical Materials Institute, Ames, United States	Chiara Cardenia¹, Chiara Bonomi¹, Dr. Efthymios Balomenos¹, Dr. Ioanna Giannopoulou¹, Prof. Dimitrios Panias¹	Prof. Guido Sonnemann¹, Mr Alexander Cimprich², Mr Christoph Helbig³ Dr Eskinder Gemechu¹, Dr Andrea Thorenz², Prof. Axel Tuma³. Prof. Steven B Young²
		¹ National Technical University of Athens (NTUA), Athens, Greece	¹ University of Bordeaux, Bordeaux, France, ² University of Waterloo, Waterloo Canada, ³ University of Augsburg, Augsburg, Germany
	KEYNOTE/INVITED ACCELERATING MATERIALS DISCOVERY	SYNTHESIS OF SCANDIUM CONCENTRATE FROM BAUXITE RESIDUE	EXPLORING THE COMPLEMENTARITY AND INDEPENDENCE OF LIFE-CYCL SUSTAINABILITY ANALYSES AND CRITICALITY ASSESSMENTS
11.40	AND DEVELOPMENT THROUGH MULTI-DISCIPLINARY RESEARCH	Mr. Bengi Yagmurlu ¹² , Mr. Carsten Dittrich ¹ , Prof. Dr. Ing. Bernd Friedrich ²	Torsten Hummen, Luis Tercero
	r. James Roberto¹	¹ MEAB Chemie Technik Gmbh, Aachen, Germany, ² RWTH Aachen, Aachen, Germany	Fraunhofer Institute for Systems and Innovation Research ISI, Germany
		ALTERNATIVE BINDER FORMATION AND IRON EXTRACTION FROM CHEMICALLY AND THERMALLY MODIFIED BAUXITE RESIDUE	SIMULATION BASED LIFE CYCLE ASSESSMENT OF CIRCULAR ECONOMY SYSTEMS
12.00		Tobias Hertel ¹ , Prof. Dr. Bart Blanpain ¹ , Prof. Dr. Yiannis Pontikes ¹	Antti Reuter ¹ , Markus A. Reuter ²
	¹ Oak Ridge National Laboratory, Oak Ridge, United States	¹MEAB Chemie Technik Gmbh, Aachen, Germany, ²RWTH Aachen, Aachen, Germany	" ¹ Outotec Oyj, Espoo, Finland, ² Helmholtz-Institute Freiberg for Resource Technology, Freiberg, Germany
	HIGHLIGHT ACCELERATED DEVELOPMENT OF SUBSTITUTES FOR CRITICAL MATERIALS IN CLEAN ENERGY TECHNOLOGIES	PROPERTIES OF BAYER RED MUD BASED FLUX AND ITS APPLICATION IN SEMI-STEEL DEPHOSPHORIZATION	COMBINING "CIRCULARITY SCORING" CRITERIA AND LIFE CYCLE ASSESSMENT TO COMPARE RECOVERY ROUTES FOR ALKALINE BATTERY RECYCLING
12.20	Dr. Thomas Lograsso¹	Professor Yanling Zhang¹. Mr. Fengshan Li¹.	Edis Glogic ¹² , Dr Steven Young ¹ , Dr Guido Sonnemann ²
	¹ Ames Laboratory, Ames, United States	Professor Zhancheng Guo¹ 'State Key Laboratory of Advanced Metallurgy, University of Science And Technology Beijing, Beijing, China	¹University Of Waterloo, Waterloo, Canada, ²University of Bordeaux, Bordeaux, France
		METRONIDAZOLE AND IBUPROFEN ADSORPTION ON	SECURING RAW MATERIALS FOR SOCIETY:
	RECENT DEVELOPMENTS IN RFe12-TYPE COMPOUNDS WITH LOW RARE EARTH CONTENTS FOR PERMANENT MAGNETS	HTC-DERIVED ACTIVATED CARBON: EXPERIMENTAL AND THEORETICAL ADSORPTION STUDIES	A CROSS-SECTORAL AND MULTIDISCIPLINARY CHALLENGE
12.40	Daniel Salazar ¹ , Andrés Martin-Cid ¹ , Ana Mara Schönhöbel ¹ , Jose Javier Garitaonandia ² , Jose Manuel Barandiaran ² , George Hadjipanayis ³	Asma Jeder ¹² Philippe Gadonneix ² . Abdelmottaleb Ouedern ¹ . Alain Celzard ² , Vanessa Fierro	Wouter De Soete [†] . Jo Dewulf [†]
	¹ BCMaterials, Derio, Spain, ² University of the Basque Country, Leioa, Spain, ³ University of Delaware, Newark, USA	'National School of Engineers of Gabes, gabes, Tunisie, 'Institut Jean Lamour, epinal, France	Research Group Environmental Chemistry and Technology (ENVOC), Faculty of Bioscience Engineering, Ghent University, Campus Coupure, Coupure Links 653, B-9000, Ghent, Belgium
			EIT RAWMATERIALS — DRIVING INNOVATION IN THE RAW MATERIALS VALUE CHAIN
13.00			Roland GAUB ¹
13.00			¹ EIT RawMaterials GmbH



Symposium	A3	A5	A8	B2
Room	I-11/M1	MOYSA Hall/M2	I-08/M1	Aimilios Riadis Hall/M2
Session Title	Nanostructured polymers II	Bio-nano Interface I	Functional oxides 2	Aluminium
Chairperson	Nektaria-Marianthi Barkoula	Mathias Brust	Jorge Iniguez	Suveen Mathaudhu
15.00	KEYNOTE/INVITED ROSE-PETAL AND LOTUS EFFECTS OF BIOMIMETIC NANOSTRUCTURED POLYMER SURFACES Prof. Dr. Jean-francois Gerard	Dr. Neus Feliu ¹² Prof. Dr Wolfgang Parak ²³ **Department of Laboratory Medicine (LABMED) Karolinska Institutet, Stockholm, Sweden, ² Universität Hamburg, Hamburg, Germany, ³ Philipps Universität Marburg, Germany	HIGHLIGHT GRADIENT-MEDIATED COUPLINGS AT IMPROPER FERROELASTIC WALLS Massimiliano Stengel ^{1,2} , Andrea Schiaffino ¹ ICMAB-CSIC, Bellaterra, Spain, ICREA, Barcelona, Spain	HIGHLIGHT A MULTI-SCALE MODELLING OF PRECIPITATION HARDENING EFFECT IN ALL AND Mg ALLOYS H. Liu¹, J.F. Nie² Department of Metallurgy and Materials Engineering, Katholieke Universiteit Leuven, Kasteelpark Arenberg 44, B-3001, Leuven, Belgium, Department of Materials Science and Engineering, Monash University, Victoria 3800, Australia
15.20	Ilmp Umr Cnrs 5223 - Université De Lyon, Villeurbanne, France	HIGHLIGHT ADVANCED THERANOSTIC SYSTEMS BASED ON NANOSTRUCTURE MATERIALS Dr Eleni Etthimiadou¹². M. Theodosiou¹²., G. Kordas¹ ¹Institute of Nanoscience and Nanotechnology, NCSR D, Athens, Greece, Aghia Paraskevi Attikis, Greece, ³University of Athens, 2Department of Chemistry, University of Athens, Panepistimioupoli Zografou, Athens, Greece, Greece	POLAR TWIN WALLS IN STIO3 VIA A FIRST-PRINCIPLES BASED MULTISCALE APPROACH Andrea Schiaffino ¹ , Massimiliano Stengel ^{1,2} Andrea Schiaffino ¹ , Massimiliano Stengel ^{1,2} ICMAB-CSIC, Campus UAB, 08193 Bellaterra, Spain, ICMEA-Institució Catalana de Recerca i Estudis Avançats, 08010 Barcelona, Spain	HIGHLIGHT EXAMINING THE AGEING BEHAVIOUR OF HIGH TEMPERATURE AL-Zr-V PRECIPITATES USING SMALL ANGLE X-RAY SCATTERING Dr Mohammed Azeem ^{1,2} . Mr P Panagos ^{1,2} . Dr Yiqiang Wang ^{1,2} Professor Graham McCartney ^{2,3} . Dr Bita Ghaffari ⁴ , Dr Mei Li ⁴ , Dr J. W. Zindel ⁴ , Professor John E. Allison ⁵ , Professor Peter D Lee ^{1,2} School of Materials. The University of Manchester, Oxford Road, Manchester M13 9PL. United Kingdom, *Research Complex at Harwell, RAL, Didoot OX11 DFA, United Kingdom, "Advanced Materials Group, Faculty of Engineering, University of Nottingham, University Park, Nottingham NG7 2RD. United Kingdom," Materials Research Department. Ford Motor Company, Research and Innovation Center, M03182, P. D Box 2053, Dear- born M48121, USA, 5Department of Materials Science and Engineering, University of Michigan, 2300 Hayward St., Ann Arbor, MI 48109, USA
15.40	ENGINEERED SELF-GROWTH OF MYCELUM-BASED BIOCOMPOSITE MEMBRANES OF TUNABLE STRUCTURAL CHARACTERISTICS AND PHYSICAL PROPERTIES Athanassia Athanassiou¹, Muhammad Haneef¹, Fabio Ferrando¹, Aidin Lak¹, José A. Heredia Guerrero¹, Luca Ceseracciu¹, Claudio Canale¹, Ilker S. Bayer¹, Despina Fragouli¹, Teresa Pellegrino¹, Roberto Cingolani¹	INTERACTION OF COLLOIDAL NANOPARTICLES WITH CELLS Prof. Dr. Wolfgang Parak ¹ 1 Philipps Universität Marburg, Marburg, Germany,	TUNABLE DIELECTRIC THIN FILM PEROVSKITES: FROM THE HIGH THROUGHPUT SYNTHESIS TO THE HIGH FREQUENCY DEVICES Dr Ioanna Bakaimi ¹ , Dr Jin Yao ¹ , Dr Samuel Guerin ² , Dr John Kavanagh ¹ , Dr He Xingli ² , Professor Kees de Groot ² , Professor Brian Hayden ^{1,2} 'University of Southampton ,Southampton, United Kingdom, "Ilika Technologies, Southampton, United Kingdom, Telectronics and Computing Center, Southampton, United Kingdom, United Kingdom	MICROSTRUCTURE – PROPERTIES RELATIONSHIP FOR 2024 ALUMINUM ALLOY AFTER HIGH- TEMPERATURE AGEING Louise Briez¹, Dr. Vladimir Esin¹, Dr. Alain Köster¹, Matthieu Pachoutinsky², Dr. Jérôme Crépin¹ 'MINES ParisTech, PSL Research University, Centre des Matériaux (CNRS UMR 7633), BP 87, Evry cedex 91003, France, Evry, France, 2Dassault Aviation, Saint-Cloud, France
	¹Istituto Italiano Di Tecnologia, Genova, Italy	² CIC Biomagune, Spain		
16.00	WETTING ON MAGNETICALLY ACTUATED SUPERHYDROPHOBIC SURFACES Mrs Blandine Bolteau ^{1,2,3} Dr Etienne Barthel ³ , Dr Jérémie Teisseire ² , Dr Jérémie Fresnais ¹	BIO-FUNCTIONALIZED MAGNETIC NANOPARTICLES FOR REMOTE CONTROL OF DIFFERENTIATION AND ORIENTED GROWTH OF NEURONAL CELLS Dr Emilie Secret ¹ , Mr Elie Balloul ² , Mrs Aude Michel ¹ ,	CONDUCTIVITY, SPIN-STATE AND MAGNETOSTRUC- TURAL TRANSITIONS IN COBALT PEROYSKITES INVESTIGATED BY X-RAY SPECTROSCOPIES AND NEUTRON DIFFRACTION Jessica Padilla-Pantoja', Javier Herrero-Martín', Sara Lafuerza', Arnau Romaguera', Francois Fauth', Javier Blasco', José-Luis García-Muñoz'	THE EFFECT OF SCANDIUM AND ZIRCONIUM ON THE MICROSTRUCTURE, MECHANICAL PROPERTIES AND EXTRUDABILITY OF A MODEL AL-Cu ALLOY Dr Thomas Dorin¹, Dr Mahendra Ramajayam¹, Dr Timothy J. Langan²
	¹ Laboratoire PHENIX, UMR CNRS 8234, UPMC Univ Paris 06, Paris, France, ² Laboratoire SVI, UMR 125, CNRS/Saint Gobain, Aubervilliers, France, ² Laboratoire SIMM, UMR CNRS 7615, ESPCI, UPMC Univ Paris 06, Paris, France	Dr Cornelia Monzel [®] . Dr Maxime Dahan [®] . Dr Jérôme Fresnais [®] . Dr Christine Ménager [®] . Dr Jean-Michel Siaugue [®] "Sorbonne Universités, UPMC Université Paris 6, CNRS, UMR 8234, PHENIX, Paris, France. [®] Laboratoire Physi- co-Chimie, Institut Curie, CNRS UMR168, Paris-Science Lettres, UPMC Université Paris 6, Paris, France	Institut de Ciència de Materials de Barcelona ,ICMAB-CSIC, E-08173 Bellaterra, Spain, "ALBA Synchrotron Light Facility, E-08290 Certanyola del Valles, Spain, "SERF European Synchrotron Radiation Facility, F-38042 Grenoble Cedex, France, "Institud de Ciencia de Materiales de Aragón, IC- MA-CSIC-Universidad de Zaragoza, E-50009 Zaragoza, Spain	Deakin University, Geelong, Australia, ² Clean TeO Ltd., Melbourne, Australia
	EPOXYDATION OF SUGAR-DERIVED FURANIC MOLECULES	ADVANCED PROBES FOR MULTIPLEXED INTRACELLULAR BIOMARKER DETECTION	ONE SITE, TWO SPIN ARRANGEMENTS: MAGNETIC ORDER IN MULTIFERROIC MN0.85C00.15W04 BY ELEMENT-SPECIFIC RESONANT MAGNETIC X-RAY SCATTERING	CLARIFICATION OF RELATIONSHIP BETWEEN BAKE-HARDENING RESPONSE AND CLUSTER FRACTIONS IN AN AI-Mg-Si ALLOY USING A HIGH-DETECTION-EFFICIENCY ATOM PROBE
16.20	Angela Marotta ¹² , Veronica Ambrogi ¹ , Alice Mija ²	Miss Maria-eleni Kyriazi [†] , Dr Afaf El-Sagheer ²³ , Dr Tom Brown [‡] , Dr Peter Lackie [†] , Dr Otto Muskens [†] , Dr Antonios Kanaras [†]	Dr Javier Herrero-Martin ¹ , Dr Claudio Mazzoli ² , Dr Sonia Francouat ³ , Dr Jörg Strempfer ³ , Dr Federica Fabrizi ⁴ , Dr Peter Bencok ⁴ , Dr Paul Steadman ⁴ , Dr Al- exander N. Dobrynin ⁵ , Dr Alessandro Bombardi ⁴ , Prof. Dr. Alexander A. Mukhin ⁵ , Prof. Dr. Vassil Skumryev ⁶ , Prof. Dr. José Luis Garca-Muñoz ²	Dr Yasuhiro Aruga [†] , Dr Masaya Kozuka [†] , Dr Tatsuo Sato [†]
	¹ Università degli Studi di Napoli Federico II. Napoli, Italy, ² Université Nice Sophia Antipolis, Nice, France	¹ University Of Southampton, Southampton, United Kingdom, ² University of Oxford, Oxford, United King- dom, ³ Suez University, Suez, Egypt	'ALBA Synchrotron Light Source. Cerdanyola del Vallès (Barcelona), Spain, 'Brookhaven National Lab., Natl. Synchrotron Light Source. Uptin. USA, 'Deutsch Elektronen Synchrotron (IDEST), Hamburg, Germany, 'Ulamond Light Source. Didoct, United Kingdom', Probhborro General Physics Institute, Russian Academy of Sciences. Moscow, Russia: 'Departament de Fisica, Universitat Autonoma de Barcelona, Bellaterra (Barcelona), Spain, 'Institut de Ciencia de Materials de Barcelona, ICMAB-CSIC, Bellaterra (Barcelona), Spain	'Kobe Steel, Ltd., Japan
	SWELLING BEHAVIOR AND STRUCTURAL CHAR- ACTERIZATION OF POLYTETRAFLUOROETHYLENE ELABORATED BY DIFFERENT PROCESSES: MOLDING, EXTRUSION, AND SPARK PLASMA SINTERING	PHYSICAL-CHEMICAL CHARACTERIZATION OF FUNCTIONALIZED NANOPARTICLES PhD Robin Capomaccio¹. PhD Isaac Ojea-Jiménez¹, PhD Dora Mehn¹, PhD Ines Osorio, Doctor Giacomo	NANOSCALE IMAGING OF RESISTIVE DOMAINS ACROSS THE FIRST-ORDER METAL-TO-INSULATOR TRANSITION OF NANIO3 Dr. Daniele Preziosi ¹ , Dr. X. Li2, Dr. A. Sander ¹ , L.	
16.40	Dr Ilham El Aboudi ¹ , Drl Ahmed MDARHRI ¹ , Mourad RZAIZI ¹ , ODILE BABOT ² , Laurent SERVANT ² **University Cadi Ayyad, Laboratory of Condensed	PhD Data Mellin', PhD François Rossi, PhD Douglas Gilliland', PhD Pascal Colpo', PhD Luigi Calzolai'	Or. Jamiete Prizesty, Dr. A. Liz, Dr. A. Gloter ² , Lopez-Mir ² , Dr. K. Bouzehouane ³ , Dr. A. Gloter ² , Prof. A. Barthélémy ¹ , Dr M. Bibes ¹ "Unité Mixte de Physique CNRS/Thales and Univ. Paris-Sud, 91405 Orsay, I avenue A. Fresnel, 91767 Palaiseau, France, ³ Laboratoire	
	Matter and Nanosfructures (LCMÑ). Faculty of Sciences and Technology, Marrakech, Morocco, 'University of Bordeaux, Institute of Molecular Sciences, Group of Molecular Spectroscopy, UMR5255, Talence, France	reuropean Commission Directorae e Genera John Research Centre Directorate F - Health, Consumers And Reference Materials ,Ispra, Italy	ursay, I ovenue A. Freshe, Y 167 Pradisseu, France, "Laboratore de Physique des Solides CINGS&Univ. Prafs-Sud. I 18 di. 510 - F91456 Orsay, France, "Centre d'Investigació en Nanociència i Nanotecnologia, CIN2 (CSIC-ICN), Edifici CM7, Campus UAB, E-08193 Barcelona, Catalunya, Spain	

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Symposium	В3	B5	B10	B11
Room	CR I Hall/M2	Conference Room 1/M1	Maurice Saltiel Hall II/M2	Maurice Saltiel Hall III/M2
Session Title	Single Crystals Ni-base Superalloys II	Borides and Nitrides	Fatigue & Fracture II - Case studies	High Temperature Deformation
Chairperson	Jonathan Cormier	Dariusz Kata	Michael Vormwald	I. Proriol Serre
	MECHANISMS OF M23C6 CARBIDE PRECIPIATION IN NI-BASE SUPERALLOY SINGLE CRYSTALS	INVESTIGATING CRACK PROPAGATION IN ZIRCONIUM DIBORIDE-BASED COMPOSITE CERAMICS BY MULTI- PHASE FIELD MODELING	S-N CURVES FOR FATIGUE ASSESSMENT OF TRUCK LEAF SPRINGS	ANALYSIS OF THE MECHANICAL RELAXATIONS OF 6061 AND 6082 (AL-Mg-Si) ALLOYS BY USING THE TIME-TEMPERATURE SUPERPOSITION PRINCIPLE
15.00	Dr. Leonardo Agudo Jácome ¹ , Bachelor Viola Mielke ¹	Dr. Mohsen Asle Zaeem¹, Arezoo Emdadi¹, Dr. Bill Fahrenholtz¹, Dr. Greg Hilmas¹ 'Missouri University of Science and Technology,	<u>Dr. Georgios Savaidis¹, MSc Themistoklis Kiritsis²,</u> MSc Nikolaos Providakis²	<u>DrEng. Jose I. Rojas</u> ¹ , Prof. Daniel Crespo ²
	¹ Bundesanstalt Für Materialforschung Und Prüfung. Berlin, Germany	Rolla, United States	'Aristatle University of Thessaloniki, Thessaloniki, Greece. 'School of Pedagogical and Technological Education, Athens/N.Heraklion, Greece	Department of Physics — Division of Aerospace Engineering, Universital Politècnica de Catalunya, Castelldefels, Spain, ³ Department of Physics, Universi- tat Politècnica de Catalunya, Castelldefels, Spain
	IN SITU REAL TIME DIFFRACTION STUDY OF PLASTIC TRANSIENTS WITHIN A SINGLE CRYSTAL SUPER- ALLOY FOLLOWING STRESS JUMPS DURING A HIGH TEMPERATURE CREEP TEST	THERMAL CONDUCTIVITY MODEL OF SI3N4 CERAMICS	A FAILURE ANALYSIS INVESTIGATION OF A TRANSMISSION PRECISION ROLLER CHAIN	INFLUENCE OF DIFFERENT COOLING REGIMES ON THE HOT DUCTILITY OF CONTINUOUSLY CASTED MICRO-ALLOYED STEEL
	Roxane Tréhore! ¹ , Thomas Schenk ¹ , Gabor Ribarik ^{1,2} , Alain Jacques ¹ , Pierre Bastie ^{4,5} , Jonathan Cormier ³ , Lucile Dezerald ¹	Doctor Xiao-Shan Ningʻ, Mengmeng Pengʻ, Xingli Liuʻ ¹ Tsinghua University, Beijing, China,	MSc Sophia Papanikolaou ¹ , Mr Alexandros Antona- tos ² , Mr. Mihalis Fikas ² , MSc Dimitrios Fasnakis ¹ , Mr. Andreas Maropoulos ³	DiplIng. Harald Radlwimmer ¹ , DiplIng. Pierre Wiehoff ¹ , DiplIng. Tomasz Wojcik ¹ , Dr. Jakob Six ² , Dr. Sergiu Ilie ² , Prof. Ernst Kozeschnik ¹
15.20	Institut Jean Lamour, Nancy, France, ² Department of Physics, Eötvis University, Budapest, Hungary, ³ Institut P Prime, Futuroscope Chasseneuil , France, ⁴ LIPhy, Saint Martin d'Hères, France, ⁵ ILL, Grenoble, France	Haidian district, CHÍNA	¹ Technological Educational Institute of West Macedonia, Kazani, Greece, ² Testing Research & Standards Center PCC, Athens, Greece, ² School of Mechanical Engineering of the Aristotle University of Thessaloniki, Thessaloniki, Greece	¹ TU Wien - Institute of Materials Science and Technology, Vienna, Austria, ² voestalpine Stahl GmbH, Linz, Austria
	SECTION SIZE ON THE FORMATION TENDENCY OF THE PLATFORM STRAY GRAINS IN A NI-BASED (HIGH AI) SINGLE CRYSTAL SUPERALLOY	PREPARATION AND CHARACTERIZATION OF BULK NANOCRYSTALLINE HAFNIUM DIBORIDE	CHARACTERIZATION OF DAMAGE MECHANISM FOR INDUSTRIAL COMPONENTS SUBJECTED TO COMBINED DYNAMIC IMPACT LOADING AND SLIDING	MODELING THE THERMOMECHANICAL LOAD- INGS-INDUCED DAMAGE IN CERAMIC HONEYCOMB STRUCTURES. APPLICATION TO DIESEL PARTICU- LATE FILTERS REGENERATION
		Assoc, Prof. NAZLI AKCAMLI ¹² , Preparation And Characterization Of Bulk Nanocrystalline Hafnium Diboride DUYGU AĞAĞÜĞULLARİ', Preparation And Characterization Of Bulk Nanocrystalline Hafnium	PhD student Reza Karimi Bakhshandi¹, Associate Professor Anders Gåård¹, Professor Jens Bergström¹	Pr Michel Boussuge¹. Dr Arnaud Beurotte¹. Dr Laurent Jeanfaivre¹
15.40	<u>Haigen Zhao</u> ¹, Shusuo Li¹, Yanling Pei¹, Shengkai Gong¹, Huibin Xu¹	Diboride ÖZGE BALCI ¹³ , Preparation And Charac- terization Of Bulk Nanocrystalline Hafnium Diboride ISMAIL DUMAN', Preparation And Characterization Of Bulk Nanocrystalline Hafnium Diboride M. LÜTFI ÖVEÇOĞLU ¹	¹ Karlstad University, Karlstad, Sweden	'MINES-ParisTech Materials Center, Evry, France
	'School of Materials Science and Engineering, Beihang University, Beijing, China	¹ İstanbul Technical University, İstanbul, Turkey, ² Bursa Technical University, Bursa, Turkey, ³ Koç University, İstanbul, Turkey		
	EFFECT OF SUBSTRATE ORIENTATIONS ON MICRO- STRUCTURE EVOLUTION AND FAILURE BEHAVIOR FOR SINGLE CRYSTAL SUPERALLOYS IN RECAST LAYER	LOW-TEMPERATURE AUTOCLAVE SYNTHESIS OF CHROMIUM BORIDES	CONSTITUTIVE LAWS AND FINITE ELEMENT MODELING FOR THE FATIGUE OF TEXTILES USED IN CAROTID ARTERY REPAIR	FATIGUE LIFE CALCULATION OF DUCTILE CAST IRON AND METASTABLE AUSTENITIC STEELS BASED ON MEASUREMENT OF PHYSICAL MATERIALS PROPERTIES
16.00	<u>Dr Tao Dong</u> ¹, Dr Chengtong Gao¹, Dr Kaiming Liang¹, associate professor Yanling Pei¹, Professor Shusuo Li¹, Professor Shengkai Gong¹	<u>Ph.D. Duygu Ağaoğulları</u> ¹, Assist. Prof. Dr. Nazlı Akçamlı², Prof. Dr. Lütfi Öveçoğlu¹	Dr. Leonidas A. Spyrou', <u>loannis D. Gavardinas</u> ² ; Athanasios Athanasoulas ³ , Dr. Konstantinos Spanos ³ , Professor Athanasios D. Giannoukas ³ , Professor Antonios E. Giannakopoulos ⁴	Prof. Dring. Tilmann Beck', Dring. Marcus Klein', Dipling. Benjamin Jost', Dring. Marek Smaga', Prof. Dring. Dietmar Eifter'
	'School of Materials Science and Engineering, Beihang University, No. 37 Xueyuan Road, China	¹ Istanbul Technical University, Maslak, Turkey, ² Bursa Technical University, Yıldırım, Turkey	"Institute for Research & Technology – Thessaly, Centre for Research & Technology Hellas (EERTH), Volas, Greece, "Depart- ment of Civil Engineering, University of Thessaly, Volas, Greece, "Department of Vascular Surgery, Faculty of Medicine, University of Thessaly, Lorisa, Greece, "National Technical University of Athens, Mechanics Division, Athens, Greece	Institute Of Materials Science And Engineering (WKK), TU Kaiserslautern, Kaiserslautern, Germany
	EFFECT OF STRESS AND SECONDARY ORIENTATION ON THE OXIDATION-INDUCED RECRYSTALLIZATION BEHAVIOR OF A NI-BASED SINGLE CRYSTAL SUPERALLOY	GRADIENT COATINGS BASED ON UHTCs	FATIGUE PROPERTIES OF COCR SCAFFOLDS OBTAINED BY ADDITIVE MANUFACTURING	NANO-INDENTATION CREEP BEHAVIOUR OF ROLLED AL-4.5Cu-5TIB2 IN-SITU COMPOSITE AND ITS CORRELATION WITH THE MICROSTRUCTURE BY ORIENTATION IMAGING
16.20	<u>Dr. Lu Qin</u> ¹, Pro. Yanling Pei¹, Pro. Shusuo Li¹, Pro. Shengkai Gong¹, Pro. Huibin Xu¹	<u>Dr Oleg Grigoriev</u> ', Dr. Oleg Udovyk ¹	Dr. Bram Neirinck', ir Karel Lietaert ¹² , ir Antonio Cutolo ³ , prof. Brecht van Hooreweder ³	<u>Ms. Monalisa Manda</u> l ¹ , Dr. Rahul Mitra ¹
	'School of Material Science and Engineering, Beihang University, Beijing, China	¹ Institute For Problems Of Material Science Of Nasu, Kiyv, Ukraine	'3DSystems, Leuven, Belgium, 'Department of Materials Engi- neering, KU Leuven, Leuven, Belgium, 'Department of Mechanical Engineering, KU Leuven, Leuven, Belgium	'Indian Institute Of Technology, Kharagpur, Kharagpur, India
16.40			FINITE ELEMENT MODELING OF THE RESPONSE OF CIRCULAR SIMPLY SUPPORTED GLARE FIBER- METAL LAMINATES UNDER FRICTIONLESS OBLIQUE INDENTATION Dr. George Bikakis', Prof. DrIng Alexander Savaidis'	STATISTICAL APPROACH FOR THE AUTOMATED REGRESSION OF CREEP EXPERIMENTS Irina Rostyakova¹, Ekaterina Turchenko¹, Philip Wollgramm², Gunther Eggeler², Ingo Steinbach¹ ¹The Interdisciplinary Centre for Advanced Moterials Simulation (ICAMS), Ruhr-Universität Bochum, Bochum, Germany, Zlehrstuhl
			Department Of Mechanical Engineering Educators, Athens, Greece	Werkstoffwissenschaft. Institut für Werkstoffe. Fakultät für Maschinenbau. Ruhr-Universität Bochum, Bochum, Germany



Symposium	C1	C2	C6	D2
Room	Friends of Music Hall/M1	Conference Room 4/M1	I-15/M1	Museum Hall /M2
Session Title	Coatings and thin films 2/6 Coatings structure I	Ultrashort pulsed laser processing	Brazing, diffusion bonding	Metals & Ceramics II: Phase transformations & plasticity
Chairperson	T. Polcar, D. Holec	Philippe Delaporte	Ivan Kaban	Wayne Kaplan
	HIGHLIGHT NOVEL THIN PROTECTIVE COATINGS FOR AUTOMOBILE ENGINE VALVES	KEYNOTE/INVITED NON-ABLATIVE FEMTOSECOND LASER PROCESSING OF TRANSPARENT SUBSTRATES: FROM FUNDAMENTALS TO APPLICATIONS	HIGHLIGHT EFFECT OF HEAT EVOLUTION ON MICROSTRUCTURE AND JOINT PERFORMANCE UPON SOLDERING WITH REACTIVE NANO-MULTILAYERS	CRYSTAL PLASTICITY PARAMETER IDENTIFI- CATION BY INTEGRATED DIC ON MICROSCOPIC TOPOGRAPHIES
15.00	<u>Prof. Zbigniew Grzesik</u> ¹, M.Sc. Monika Drożdż¹, Dr. Monika Migdalska¹, Dr. Karol Kyzioł¹	Dr Yves Bellouard ¹	Dr. Bastian Rheingans ¹ , Prof. Dr. Jolanta Janczak-Rusch ¹ , Dr. Axel Schumacher ² , Dr. Stephan Knappmann ² , Dr. Lars P. H. Jeurgens ¹	<u>Dr.ir. Johan Hoefnagels</u> ¹, dr. Morgan Bertin², Dr. Chaowei Du¹, Prof. Francois Hild²
	¹ AGH University of Science and Technology, Krakow, Poland		Empa, Swiss Federal Laboratories for Materials Science and Technology, Laboratory for Joining Technologies & Corrosion, Dübendorf, Switzerland, ² Hahn-Schickard, Villingen-Schwenningen, Germany	Eindhoven University of Technology, Eindhoven, the Netherlands, ² LMT, ENS Cachan, CNRS, Université, Paris-Saclay, France
	EFFECTS OF ANNEALING ON THE NANOSTRUCTURE OF PVD CRCUAGN NANOCOMPOSITE COATINGS		EFFECT OF SURFACE SELF-NANOCRYSTALLIZATION ON DIFFUSION BONDING BETWEEN TC11 TITANIUM ALLOY AND TIAI ALLOY	COMBINING HRDIC, EBSD AND ECCI TO STUDY THE EFFECT OF PARTICLE SIZE ON THE DEFORMATION STRUCTURES OF A NICKEL-BASED SUPERALLOY
15.20	<u>Dr. Xingguang Liu¹</u> , Prof. Allan Matthews², Dr. Adrian Leyland¹	[†] EPFL - STI/IMT/GALATEA LAB, Neuchâtel, Switzerland	Xiao-chen Wang ¹ , <u>Xue-song Fu</u> ¹ , Guo-qing Chen ¹ , Wen-long Zhou ¹	Dr. Allan Harte ¹ , Carsten Drouven ² , Stefan Zaefferer ³ , Michael Preuss ¹ , João Quinta da Fonseca ¹
	¹ The University of Sheffield, Sheffield, United Kingdom, ² The University of Manchester, Manchester, United Kingdom		[†] Dalian University Of Technology, Dalian,	¹ The University of Manchester, Manchester, United Kingdom. ² RWTH Aachen University Templergraben, Aachen, Germany, ³ Max-Planck Institute for Iron Research GmbH, Germany
	MICROSTRUCTURAL CHARACTERIZATION OF Hf-DOPED CRALN THIN FILMS DEPOSITED BY DC MAGNETRON SPUTTERING	EXPERIMENTAL INVESTIGATIONS OF FUNDAMENTAL MECHANISMS INVOLVED IN FEMTOSECOND LASER MODIFICATION OF DIELECTRIC MATERIALS	MICROSTRUCTURE AND STRENGTH OF TI ALLOY JOINTS BRAZED WITH Ag-28Cu	TEM CHARACTERIZATION AND PRECIPITATION SIMULATION OF SECONDARY PHASES IN NI-BASE SUPERALLOY RENE 65
15.40	Prof. DrIng. DiplWirt.Ing. Wolfgang Tillmann ¹ , Nelson Filipe Lopes Dias ¹ , Dominic Stangier ¹	<u>Dr Stephane Guizard</u> '	Dr. Galina Kasperovich ¹ , Dr. Joachim Gussone ¹ , Dr. Jan Haubrich ¹ , Elodie Boller ² , Prof. Dr. Guillermo Requena ¹	Tomasz Wojcik ¹ , Markus Rath ¹ , Prof. Ernst Kozeschnik ¹
	'Institute Of Materials Engineering, TU Dortmund, Dortmund, Germany 'Labor	¹ Laboratoire Des Solides Irradiés, Palaiseau, France	¹ German Aerospace Center (DLR), Cologne, Germany, ² European Synchrotron Radiation Facility (ESRF), Grenoble, France	'Institute for Materials Science and Technology, TU Wien, Wien, Austria
	STUDY ON THE ATOMIC AND ELECTRONIC STRUCTURE IN CRN/ALN MULTILAYERS	ULTRAFAST LASER SURFACE STRUCTURING USING CYLINDRICAL VECTOR POLARIZATION STATES	MICROSTRUCTURE CHARACTERISTICS OF JOINTS AFTER INDUCTION BRAZING OF TI-6AL-4V ALLOY WITH TI-Zr-Cu-Pd-Sn AMORPHOUS FILLER FOIL	PRECIPITATION PHENOMENA AND STRENGTHEN- ING MECHANISMS IN ULTRAFINE-GRAINED AND NANOCRYSTALLINE AL-Zn-Mg-Cu ALLOY
16.00	Dr. Zaoli Zhang', Mr Xunlong Gu', Dr. David Holec ² , Dr. Matthias Bartosik ² , Professor Paul H Mayrhofer ³	Mr Evangelos Skoulas ¹² , Dr Emmanuel Stratakis ¹²	M.Sc.Eng. Kamil Badura ¹ . Anna Sypien ¹	Research Assistant Professor Haiming Wen ¹²
	¹ Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria, ² Department of Physical Metallurgy and Materials Testing, Montanuni- versität Leoben, Austria, ³ Institute of Materials Science and Technology, TU Wien, Austria	¹ Foundation for Research & Technology-(IESL), Heraklion, Greece ² Material Science & Technology Departement - Univercity of Crete, Heraklion, Greece	¹Institute Of Metallurgy And Materials Science. Polish Academy Of Sciences, Krakow, Poland	¹Idaho State University, Idaho Falls, United States, ²Idaho National Laboratory, Idaho Falls, United States
	INSIGHTS INTO THE GROWTH OF Gan AND FE BASED NITRIDES USING ELECTRON BEAM PHYSICAL VAPOUR DEPOSITION.	WAVEGUIDE LASERS FABRICATED BY FEMTOSEC- OND-LASER INDUCED LOCAL MODIFICATION OF THE GLASS COMPOSITION	DIFFUSION BONDING OF TIAL TO TIGALAY ASSISTED BY NANOLAYERS	UNDERSTANDING THE NANOSTRUCTURES OF EPITAXIAL STRAIN-ENGINEERED FERH THIN FILMS
	<u>Dr Robert Davies</u> ¹ , Dr Michelle Moram ¹ , Miss Simona Pace ¹ , Miss Izzati Nadzri ¹	Dr. Jesus Hoyo', Dr. Pedro Moreno-Zárate ² , Dr. Germán Escalante ³ Dr. Juan Antonio Vallés ⁴ . Prof.	<u>Dr Sónia Simões</u> ', Dr Filomena Viana', Dr. Ana Sofia Ramos², Prof. Teresa Vieira², Dr. Manuel F. Vieira¹	Dr. Di Wang ^{1,2} , Dr. Ralf Witte ¹ , Dr. Sabine Schlabach ^{2,3} , Dr. Robert Kruk ¹ , Dr. Christian Kuebel ^{1,2} , Prof. Horst Hahn ^{1,4}
16.20	¹ Imperial College London, London, United Kingdom	Paloma Fernández ² , <u>Prof. Javier Solis</u> 'Laser Processing Group, Instituto de Óptica-CSIC, Madrid, Spain. ² Industrial Engineering, Tepexi Higher Technological Institute, Tepexi de Rodríguez, Mexico. ² Depto. de Física de Materiales, Facultad de Físicas, Univ. Complutense, Madrid, Spain. ² Departomento de Física Aplicada-I3A, Focultad de Ciencias, Universidad de Zaragoza, Zaragoza, Spain	CEMMPRE. Department Of Materials And Metallurgical Engineering, University Of Porta, Portugal, Porto, Portugal, CEMMPRE, Department of Mechanical Engineering, University of Coimbra, Portugal, Coimbra, Portugal	Institute of Manotechnology, Karlsruhe Institute of Technology, Eggenstein-leopoldshafen, Germany, *Karlsruhe Nano Micro Facility, Karlsruhe Institute of Technology, Eggenstein-leopoldshafen, Germany, *Institute for Applied Materials, Karlsruhe Institute of Technology, Eggenstein-leopoldshafen, Germany, *KIT-TUD-Joint Research Laboratory Nanomaterials, Technical University Darmstadt, Darmstadt, Germany
	STRUCTURAL AND MECHANICAL PROPERTIES OF ZrMo THIN FILMS: FROM THE NANOCRYSTALLINE TO THE AMORPHOUS STATE	ULTRAFAST LASER FABRICATION OF BIOMIMETIC NANO STRUCTURED FUSED SILICA SURFACES WITH CIRCULAR POLARIZATION	THE EFFECT OF A ZINC COATING ON THE BONDING OF ALUMINIUM TO LOW CARBON STEEL	SPONSOR PRESENTATION: FEI - LATEST DEVELOP- MENTS IN ABERRATION CORRECTED LOW kV STEM IMAGING AND SPECTROSCOPY
4//6	MSc Alejandro Borroto ¹² , Dr Stéphanie Bruyère ¹ , Dr. Nicolas Thurieau ¹ , Dr. Christine Gendarme ¹ , Dr. Emilio Jimenez-Piqué ³ , Dr. Joan Josep Roa ³ , Prof. Jean-François Pierson ¹ , Prof. Frank Mücklich ² , Dr. David Horwat ¹	<u>PhD Student Alexandros Mimidis</u> ¹² , PhD Student Antonis Papadopoulos ¹² , PhD Student Evangelos Skoulas ¹² , PhD Emmanuel Stratakis ¹²	Mr Alireza Valizadeh', Professor Isaac Chang', Dr lan Stone' Brunel Centre for Solidification Technology, Brunel University London, Uxbridge, UBB 3PH, UK, Greater London, United Kingdom	Dominique Detitle
16.40	Institut Jean Lamour, UMR 7198, Université de Lor- raine. C5 50840 Parc de Saurupt, 54011 Nancy, France, Department of Materials Science and Engineering, Chair of Functional Materials, Saarland University, Campus D3.3, D-66123 Saarbrücken, Germany, ³ De- partment of Clencia de Materiales e Ingenieria Metal- urgica, Universitat Politecnica de Catalunya, C/Eduard Maristany 10-14 (EEBE), 08019 Barcelona, Spain	¹ Foundation for Research and Technology (FORTH), Institute of Electronic Structure and Laser (IESL), Greece, ² University of Crete, Material Science & Technology Department, Greece		



Symposium	ALZUI/	D9	E1	E2
Room	Library Hall/M2	Maurice Saltiel Hall I/M2	CR II Hall/M2	CR III Hall/M2
Session Title	Mechanical testing at micro/nano scales - Deformation Mechanisms II	Advanced Nuclear Steels (II)	Electrodes/Hydrogen storage	Li air batteries / Li cathodes
Chairperson	Daniel Caillard & Mohsen Asle Zaeem	M. Serrano García	Bogdan Kuchta & Tanja Kallio	T. Zawodzinski
	HIGHLIGHT KINETICS OF DISLOCATIONS, SOLID SOLUTION HARDENING AND DYNAMIC STRAIN AGEING IN Fe, Fe ALLOYS, AND STEELS	<u>KEYNOTE/INVITED</u> DISPERSION CONTROL OF OXIDE PARTICLES FOR HIGH PERFORMANCE ODS FERRITIC STEELS	KEYNOTE/INVITED HIERARCHICAL STRUCTURED FOAMS OF POROUS NITROGEN-DOPED CARBON FOR PEM FUEL CELLS	KEYNOTE/INVITED CATHODE REACTIONS IN RECHARGEABLE APROTIC LI-02 BATTERIES
15.00	Daniel Caillard 'Cemes-cnrs, Toulouse, France	Professor Akihiko Kimura	Prof. Dr. Rolf Hempelmann	Prof Peter Bruce
	NEW UNDESTANDING OF DEFORMATION IN TIAL ALLOYS USING A HYBRID STUDY OF IN-SITU TRANSMISSION ELECTRON MICROSCOPY EXPERIMENTS AND MOLECULAR DYNAMICS			
15.20	Dr. Seong-Woong Kim¹, Jaemin Kim³, Prof. Seung- Hwa Ryu², Dr. Young-Sang Na¹, Dr. Seung-Eon Kim¹, Prof. Andrew Minor²	Kyoto University, Uji. Japan	Transfer center Sustainable Electrochemistry at Saarland University, Saarbruecken, Germany	University Of Oxford, Oxford, United Kingdom
	"Korea Institute of Materials Science, Changwon, South Korea, Lawrence Berkeley National Laboratory, Berkeley, USA, "Korea Advanced Institute of Science and Technology, Daejeon, South Korea			
	THE INFLUENCE OF INTERGRANULAR CONSTRAINTS ON THE SLIP SYSTEMS OF TIMETAL-407 ALLOY	INVESTIGATION OF RECRYSTALLIZATION MECHA- NISMS IN A FERRITIC ODS STEEL USING EBSD AND MONTE CARLO MODELLING	HIGHLIGHT HYDROGEN ADSORPTION STORAGE: LINKING MATERIALS DEVELOPMENT TO SYSTEM PERFORMANCE	CHEMICAL STABILITY OF ETHER-BASED ELECTROLYTES IN LI-02 BATTERIES
15.40	Dr Bo Pang¹, Prof M.H. Loretto¹, Dr Matthew Thomas², Dr Yu-Lung Chiu¹	Benjamin Hary ¹ , Pr Roland Loge ² , Dr Thierry Baudin ³ , Dr Joel Malaplate ¹ , Dr Yann De Carlan ¹	Richard Chahine¹	Dr. Sergio Brutti ¹ , Dr. Marco Carboni ² , Dr. Daniela Giacco ² , Dr. Riccardo Spezia ³ , Dr. Andrea Giacomo Marrani ²
	"School of Metallurgy and Materials, The University of Birmingham, Birmingham, United Kingdom, ² Timet, Birmingham, United Kingdom	¹ DEN-Service de Recherches Métallurgiques Appliquées, CEA, Université Paris-Saclay, F-91191, Gif-sur-Yvette, Gif Sur Yvette, France, ¹ UMTM. Ecole Polytechnique Fédérale de Lausanne, 2002 Neuchätel, Neuchätel, Switzerland, ³ CCMO, Université Paris-Sa- clay, UMR CNRS 8182, 91405 Orsay, Orsay, France	¹Hydrogen Research Institute, Université du Québec à Trois-Rivières, Quebec, Canada	¹ University Of Basilicata, Potenza, Italy, ² University of Rome La Sapienza, Roma, Italia, ² CNRS-LAMBE, Université d'Evry, Evry, France
	UNDERSTANDING AND QUANTIFYING THE DEFOR- MATION MECHANISMS DURING SUPERPLASTIC DEFORMATION OF THE AZ31 Mg-ALLOY	APT AND TEM INVESTIGATION OF THE EVOLUTION OF THE MICROSTRUCTURE OF ION IRRADIATED ODS STEEL	DEVELOPMENT OF NEW INTERMETALLIC HYDRIDES FOR HYDROGEN STORAGE APPLICATIONS	LINIO.5Mn1.504 PARTICLES SYNTHESIZED BY AERO SOL SPRAY PYROLYSIS AND THEIR EVALUATION FO NEXT - GENERATION Li-ion CATHODE MATERIALS
16.00	Thibaut DESSOLIER!, Dr Francine Rousel-Dherbey², Dr Frédéric Charlot², Pr Laurent Delannay³, Dr Pierre Lhuissier¹, Associate Pr Guithem Martin¹, Dr Jean-Jacques Blandin¹	<u>Dr Constantinos Hatzoglou</u> !, Dr Bertrand Radiguet!, Pr Philippe Pareige [!]	Dr. Bernard Tougas ¹ , Dr. Jacques Huot ²	Dr Georgia Kastrinaki ¹ , Mr George Ganas ¹ , Mr Dimitrios Zarvalis ¹ , Dr Athanasios G. Konstando- poulos ¹² , Dr Daniele Versaci ³ , Prof Nerino Penazzi ³ , Prof Silvia Bodoardo ³ , Dr Irabte de Meatza ⁴ , Dr Migue
	'Univ. Grenoble Alpes, CNRS, Grenoble INP, SIMaP, Grenoble, France, 'Univ. Grenoble Alpes, CNRS, Greno- ble INP, CMTG, Grenoble, France, 'Université Catholique de Louvain, Institut de Mécanique, Matériaux et Génie Civil, Louvain-la-Neuve, Belgium	¹Groupe De Physique Des Matériaux (gpm), Normandie Université, Université Rouen, France	'Centre de Métallurgie du Québec, Trois-Rivières, Canada, ² Université du Québec à Trois-Rivières, Trois-Rivières, Canada	Bengoechea ⁴ 'CERTH, Thessaloniki, Greece, ² Aristotle University of Thessaloniki, Thessaloniki, Greece, ³ Politecnico di Tor no, Torino, Italy, ⁴ IK4-CIDETEC, San Sebastian, Spain
	MICROSTRUCTURAL EVOLUTION IN MULTILAYERED THIN FILMS WITH DIFFERENT INTERFACE STRUCTURE UNDER SLIDING CONTACT	COMPOSITIONAL EFFECTS ON THE PRECIPITATE MICROSTRUCTURE OF RAFM STEELS AND INFLUENCE ON MECHANICAL PROPERTIES	DESIGN, DEVELOPMENT, CONSTRUCTION AND OPERATION OF A NOVEL METAL HYDRIDE COMPRESSOR	AQUEOUS ELECTRODE PROCESSING STRATEGIES FOR HIGH-ENERGY Li1.2Ni0.16Mn0.56Co0.0802 LITHIUM-Ion CATHODES
	Ankush Kashiwar ¹² Dr. Zhao-Ping Luo ³ , Dr. Xiaoke Mu ¹⁴ , Dr. Horst Hahn ¹² , Dr. Ruth Schwaiger ¹⁵ , Dr. Christian Kübel ¹⁵	Athina Puype ¹ , Lorenzo Malerba ² , Nico De Wispe- laere ³ , Roumen Petrov ^{1,4} , Jilt Sietsma ^{1,4}	Dr. Henrik Von Storch ¹ , Dr. Georgios Karagiorgis ^{2,2} , Dr. Chris N. Christodoulou ^{2,2} , Dr. Georgios Tzamalis ^{2,4} , Konstantinos Deligiannis ² , Demetrios Hadijpetrou ² , Marios Odysseos ² , Dr. Martin Roeb ¹ , <u>Dr. Christos</u>	Arefehsadat Kazzazi ¹² , Dr. Agnese Birrozzi ¹² , Dr. Jina Laszczynski ¹² , Dr. Jan von Zamoryi ² , Maral Hekmatfar ¹² , Dr. Dominic Bresser ¹² , Prof. Dr. Stefan Passerini ¹²
16.20	'Karlsruhe Institute of Technology, Eggenstein-Leo- poldshafen, Germany, 'Technische Universität Darmstadt, Darmstadt, Germany, 'Shenyang National Laboratory for Materials Science, Shenyang, China, 'Helmholtz Institute UIm for Electrochemical Energy Storage, UIm, Germany, 'Karlsruhe Nano Micro Facility, Karlsruhe Institute of Technology, Eggenstein-Leopold- shafen, Germany	¹ UGent, Zwijnaarde, Belgium, ² SCK CEN, Mol, Belgium, ³ OCAS, Zwijnaarde, Belgium, ⁴ TUDelft, Delft, Netherlands	Agrafiotis¹, Prof. Dr. Christian Sattler¹ ¹German Aerospace Center (dlr), Cologne, Germany, ²HYSTORE Technologies, Nicosia, Cyprus, ¹Frederick University, Nicosia, Cyprus, ¹DEMOKRITOS (NCSRD), Athens, Greece	'Helmholtz Institute Ulm (HIU), Ulm, Germany, *Karl- sruhe Institute of Technology (KIT), Karlsruhe, Germa
	TEMPERATURE-DEPENDENT PLASTIC HYSTERESIS IN HIGHLY CONFINED POLYCRYSTALLINE NB FILMS	CHARACTERISATION OF MECHANICAL PROPERTIES OF Fe10Cr4AI STEEL UNDER VACUUM AND IN PBBI EUTECTIC		THERMODYNAMIC INVESTIGATION OF LAYER STRUCTURED LINIXMINGCOZOZ AS LITHIUM ION BATTERY CATHODE MATERIALS
16.40	Ms Sana Waheed ¹ , Dr Daniel Balint ¹ , Dr Finn Giuliani ¹	<u>Fosca Di Gabriele',</u> Michal Chocholousek', Anna Hojna', Peter Szakalos ² , Zbynek Spirit'		Ms Maryam Masoumi ¹ , Dr. Damian Marlon Cupid ¹ , Prof. Hans Jürgen Seifert ¹
	Imperial College London, London, United Kingdom	¹CVR, Rez, Czech Republic.²KTH, Stockholm, Sweden		'Karlsruhe Institute of Technology. Eggenstein-Leopoldshafen, Germany

EUROMAT2017 6<u>7</u>



Symposium	E3	FI	F4
Room	Rehearsal Room 5.17/M1	3-20/M1	3-21/M1
Session Title	Thermoelectrics I	Degradable and Natural Polymers for Tissue Engineering	Hard materials to repair bone and teeth
Chairperson	Alexander Burkov	Simeon Agatopoulos	Helen REVERON
	HIGHLIGHT HYBRID PHOTOVOLTAIC THERMOELECTRIC GENERATORS FOR ENHANCED SOLAR ENERGY CONVERSION	KEYNOTE/INVITED - ESB CONTRIBUTION ENGINEERING BIOMATERIALS FOR BONE TISSUE REGENERATION	HIGHLIGHT MACROSCALE ARCHITECTURE OF HYDROXYAPATITE BIOCERAMICS AFFECTS BOTH OSTEOGENESIS AND ANGIOGENESIS
15.00	<u>Professor Dario Narducci</u> ¹, Doctor Bruno Lorenzi¹	M. Chatzinikolaidou ¹² , M. Kaliva ¹² , L. Papadimitriou ¹² , A. Georgopoulou ¹² , E. Mygdali ² , M. Vamvakaki ¹²	David Marchat ^t
	¹ University Of Milano Bicocca, Dept. Materials Science, Milano, Italy		¹Ecole Mines Saint-etienne, CIS-EMSE, Saint-etienne, France
	NANOMATERIAL-SOLUTIONS TO SHAPE-ADAPTABLE THERMOELECTRIC DEVICES		CHARACTERIZATION OF OPEN-CELL AND GLASS-CERAMIC FILLED CELLULAR ZIRCONIA STRUCTURES FOR BIOMEDICAL APPLICATIONS
15.20	Silvia Ortega ¹ , Albert Massaguer ² , Toni Pujol ² , Andreu Cabot ^{1,3} , Doris Cadavid ¹ , <u>Yu Liu¹</u>	¹ Dept. of Materials Science and Technology, University of Crete, P.O. Box 2208, 71003 ,Heraklio, Greece, 2IESL-FORTH, Heraklio, Greece	Professor Bruno Henriques ¹² , Professor Márcio Fredel ² , Dr Joana Mesquita-Güimarães ¹ , Professor Júlio CM Souza ² , Mr Paulo Pinto ¹ , Mr Douglas Fabris ² , Professor Fitipe S Silva ¹
	¹ Catalonia Institute For Energy Research - IREC, Sant Adria De Be- sos, Spain, ² Departament d'Enginyeria Mecànica i de la Construcció Industrial, Universitat de Girona, Girona, Spain, ³ Catalan Institution for Research and Advanced Studies - ICREA, Barcelona, Spain		¹CMEMS-University of Minho, Guimarães, Portugal, ²CERMAT - Federal University of Santa Catarina, Florianópolis, Brazil
	HIGHLIGHT HIGHLY EFFICIENT IV-VI BASED THERMOELECTRIC MATERIALS AND DEVICES	DUAL SYRINGE DRUG DELIVERY NANOSCAFFOLD FOR EFFECTIVE IMPLANTATION IN ORTHOPAEDIC APPLICATIONS	CAN AGEING AND AIRBORNE-PARTICLE ABRASION JEOPARDIZE THE STRENGTH OF BIOMEDICAL-GRADE ZIRCONIA CERAMICS?
15.40	Prof. Yaniv Gelbstein ¹	Mrs. Aikaterini-Rafailia Tsiapla¹, Mrs. Varvara Karagkiozaki¹², Mrs. Fotini Pappa¹², Mrs. Veroniki Bakola¹, Mrs. Eleni Pavlidou³, Mrs. Theodora Choli-Papadopoulou⁴, Mr. Ioannis Moutsios¹, Mrs. Panagiwta Gkertsiou¹, Mr. Stergios Logothetidis¹	Jasna Cotic', Peter Jevnikar', Andraz Kocjan²
	¹ Ben Gurion University, Beer-Sheva, Israel	'for 'Thin Films- Nanosystems & Nanometrology', Nanomedicine Group. Department of Physics. Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece, 'BL Nanobiomed P.C. Thessaloniki, Greece, Thessaloniki, Greece, 'Department of Physics. Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece, 'Department of Chemistry, Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece	'Department of Prosthodontics, Faculty of Medicine, University of Ljubljana, Ljubljana, Slovenia, 'Department for Nanostructured Materials, Jožef Stefan Institute, Ljubljana, Slovenia
	A HIGH-THROUGHPUT INVESTIGATION OF THE THERMOELECTRIC PROPERTIES OF MOLYBDENUM TIN TELLURIDE ALLOYS	NANOMECHANICAL CHARACTERIZATION OF FIBROUS PVA:PEDOT:PSS SCAFFOLDS FOR NERVE GRAFT CONDUITS Foteini Pappa , Varvara Karagkiozaki , Spiros Kassavetis , Maria Gioti ,	DELAYED DELAMINATION MECHANISMS OF DIAMOND-LIKE CARBON COATINGS ON ARTICULATING BIOMEDICAL IMPLANTS
16.00	<u>Dr Jin Yao</u> ¹ . Dr John Kavanagh ¹ , Professor Brian Hayden ¹²	Sofia Aslanidou', Panagiota Gkertsiou', Eleni Pavlidou², Theodora Choli-Papadopoulou³, Stergios Logothetidis'	Emilija Ilic ¹² , Dr. Roland Hauert ¹ , Dr. Patrik Schmutz ¹ , Dr. Thomas Suter ¹ , Prof. Stefano Mischler ²
	¹ University Of Southampton, Southampton, United Kingdom, ² ILIKA TECHNOLOGIES, SOUTHAMPTON, UNITED KINGDOM	¹ Lab for "Thin Films- Nanobiomaterials, Nanosystems & Nanometrology", Department of Physics, Aristotle University, Thessaloniki, Greece, ² Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece, ² Biochemistry, Laboratory, Department of Chemistry, Aristotle University of Thessaloniki, Greece	¹ Empa, Duebendorf, Switzerland, ² EPFL, Lausanne, Switzerland
		DEVELOPMENT OF FISH SCALE REINFORCED PHBV NANOFIBROUS SPONGE-LIKE SCAFFOLD FOR BONE TISSUE REGENERATION	NUMERICAL STUDY OF THE MECHANICAL STABILITY OF CUSTOM-MADE IMPLANTS MADE BY SLM MANUFACTURING
16.20		Oylum Colpankan Gunes ¹ , Aylin Kara ² , Aylin Ziylan Albayrak ¹ , Hasan Havitcioglu ^{2,3} , Gokcen Bilice ⁴ , Guven Erbil+	Paul Didier ¹ , Boris Piotrowki ¹ , Pascal Laheurte ¹ , Marie Fischer ¹
10.20		'Department of Metallurgical and Materials Engineering. Dokuz Eylul University. Izmir, Turkey, 'Department of Biomechanics, Dokuz Eylul University, Izmir, Turkey, 'Department of Orthopedics and Traumatology, Dokuz Eylul University, Izmir, Turkey, 'Department of Histology and Embryology, Faculty of Medicine, Dokuz Eylul University, Izmir, Turkey	'Laboratoire d'Etude des Microstructures et de Mécanique des Matériaux LEM3 UMR CNRS 7239, Arts et Métiers ParisTech Campus de Metz, Université de Lorraine, Metz, France
			MICROSTRUCTURAL AND MECHANICAL CHARACTERISATION OF DENTAL MATERIALS
			Teresa Palacios ¹ , C Abad ² , G Pradíes ² , JY Pastor ¹
16.40			Departamento de Ciencia de Materiales-CIME, Universidad Politécnica de Madrid, Madrid, Spain, Departamento de Estomatología I, Universidad Complutense de Madrid, Madrid, Spain

<u> EUROM</u>	AI 201/		FINAL PROGRAM/MONDAY/PM1
Symposium	Н1	H2	Н3
Room	I -16/M1	Conference Room 2/M1	Conference Room 3
Session Title	Critical Magnetic Materials I	Valorization of Secondary Resources	Implementation into practice and dicusssion
Chairperson	Tom Lograsso	Guo Muxing, Ioanna Giannopoulou	Roland Gauss
	KEYNOTE/INVITED MATERIAL CRITICALITY AND CARBON ABATEMENT, 2017-2030	REUSE OF STEEL FLY ASH FOR CEMENT-BASED ELECTROMAGNETIC INTERFERENCE SHIELDING MATERIALS PRODUCTION	PROCESS MODEL BASED LCA USING HSC CHEMISTRY SOFTWARE. DEMONSTRATION WITH SILVER REFINING CASE AND POWER PLANT OPTIMIZATION USING EXERGY
15.00	Professor Roderick Eggert ¹	<u>Dr. Yong Fan',</u> Mr. Ling Zhang', Dr. Vladimir Volskiy², Prof. Guy Vandenbosch², Prof. Bart Blanpain¹, Dr. Muxing Guo¹	Antti Roine ¹ , <u>Markus A. Reuter²</u>
		¹ Department of Materials Engineering, KU Leuven, Leuven, Belgium, ² Department of Electrical Engineering, KU Leuven, Leuven, Belgium	Outotec Oyj, Espoo, Finland ² Helmholtz-Institute Freiberg for Resource Technology, Freiberg, Germany
		HIGH STRENGTH CONCRETE USING BASALT AGGREGATE In Construction and concrete MIX Improvement	LIFE CYCLE ASSESSMENT OF GOLD PRODUCTION: COMPARISON OF PRIMARY AND SECONDARY SUPPLY ROUTES
15.20	¹ Colorado School of Mines, Golden, United States	Assistant Professor Mohmd Sarireh ¹	Dr. David Turner ¹ , Mr. Arthur Haarman ¹ , Dr. Roland Hischier ¹
		¹Tafila Technical University. Tafila, Jordan	¹Empa, St Gallen, Switzerland
	NANOCOMPOSITE SOFT MAGNETIC MATERIALS FOR ENERGY AND POWER CONVERSION APPLICATIONS	DESIGN OF IRON-RICH INORGANIC POLYMER PASTES: Influence of the Chemistry of the Precursor Slag and activating solution	THE DEVELOPMENT OF A MATERIAL CIRCULARITY INDICATOR SOFTWARE TOOL
	Paul Ohodnicki ¹		Dr Luca Petruccelli¹, <u>Dr Donna Dykeman</u> ¹, Dr Claes Fredriksson¹, Dr Conny Bakker², Miss Wendela Huisman³, Dr James Goddin¹
15.40		Arne Peys', Jorn Van de Sande', Vincent Hallet', Tobias Hertel', Silviana Onisei', Hubert Rahier², Bart Blanpain', Yiannis Pontikes'	DI COIIIIY DANNEI , PIISS WEITUELA HUISHIAH , DI JAINES COUGHI
	'National Energy Technology Laboratory / DOE, Pittsburgh, United States	¹ KU Leuven Department of Materials Engineering, Leuven, Belgium, ² Department of Materials and Chemistry, Vrije Universiteit Brussel, Brussels, Belgium	'Granta Design, Cambridge, United Kingdom, ² TU Delft. Delft. The Netherlands, ³ Schmidt MacArthur Fellowship, Isle of Wight, United Kingdom
	HIGHLIGHT TAILORING OF MAGNETIC SOFTNESS AND GMI EFFECT IN FE-RICH THIM MAGNETIC WIRES	CONTROLLING THE RHEOLOGY OF INORGANIC POLYMERS PASTES DERIVED FROM NON-FERROUS SLAGS	SHOULD WE RECYCLE RARE EARTH ELEMENTS FROM FLUORESCENT LAMPS? - A CASE STUDY
16.00	Dr. Prof. Arcady Zhukov ¹ , Dr. Mihail Ipatov ² , Dr. Ahmed Talaat ² , Dr. Juan Maria Blanco ³ , Dr. Margarita Churyukanova ⁴ , Dr. Valentina Zhukova ²	<u>Sir Glenn Beersaerts</u> ¹, Mrs Lubica Kriskova¹, Sir Yiannis Pontinkes¹	Dieuwertje Schrijvers ¹² , Guido Sonnemann ¹²
	¹ Dept. Phys. Mater., Univ. Basque Country and IKERBASQUE, Foundation for Science, San Sebastian, Spain, ² Dept. Phys. Mater. and Dept. Applied Phys., Univ. Basque Country, San Sebastian, Spain, ³ Dept. Applied Phys., Univ. Basque Country, San Sebastian, Spain, ³ National University of Science and Technology «MISIS», Moscow, Russia	¹ KU Leuven, Leuven, Belgium	'University Of Bordeaux - ISM, France, 2CNRS - ISM, France
	HIGHLIGHT CO-LEAN ALNICO: PATH TO A SUSTAINABLE HIGH TEMPERATURE PERMANENT MAGNET	SINTERING FLUE GAS DENITRIFICATION WITH DIFFERENT CARBON MATERIALS MODIFIED BY STEAM AND ACID	METAL STOCK ACCUMULATION AND SOCIO-ECONOMIC DRIVERS IN CHINESE MEGACITIES: A BOTTOM-UP ANALYSIS
16.20	Matthew Kramer¹, A. Palasyuk¹, Lin Zhou¹, A. Kassen¹, Lianfa Hu¹, Wei Tang¹, I. E. Anderson¹	Shan Ren¹	Dr. Gang Liu¹
	¹ Ames Laboratory/ Iowa State University. Ames, United States	[†] Chongqing University, Chongqing, China	'University Of Southern Denmark, Odense, Denmark
	HIGHLIGHT HIGH-THROUGHPUT APPROACH TO DEVELOPING MAGNET ALLOYS WITH DECREASED CRITICAL MATERIALS		DISCUSSION: DOES INDUSTRY NEED LIFE CYCLE CONCEPTS?
16.40	Ryan Ott!, Ikenna Nlebedim ¹ , Emrah Simsek ¹ , Matthew Kramer ¹		
	¹Ames Laboratory (USD0E), Ames, United States		



Symposium	A3	A5	A7	A8
Room	I-1 1/M 1	MOYSA Hall/M2	F 319/M1	I-08/M1
Session Title	Nanostructured polymers III	Bio-nano interface II	Alloys at the nanoscale	Functional materials
Chairperson	Alice MIJA	Wolfgang Parak	Paloma Fernández	Daniele Preziosi
	DIFFERENT ROUTES TO GET STRUCTURATION AT NANOSCALE WITHIN POLYMER MATERIALS	HIGHLIGHT GOLD NANOPARTICLES AS CHARGE SHUTTLES IN MEMBRANES	KEYNOTE/INVITED INVESTIGATION VIA SYNCHROTRON RADIATION X-RAYS OF ORDERED PHASE CHANGE MATERIALS	TUNING THE ELECTROCALORIC EFFECT BY STRAIN, FIELD DIRECTION, AND DEFECTS: INVERSE ECE AND THE IMPACT OF HYSTERESIS
17.30	Professor Jannick Duchet-rumeau¹, Dr Sébastien Livi¹, Dr Sebastien Pruvost¹, Pr Jean-François Gérard¹	Prof. Mathias Brust ¹	Raffaella Calarco ^{.1}	<u>Anna Grünebohm</u> ¹ , Madhura Marathe ² , Claude Ederer ²
	¹Imp-university Of Lyon, Villeurbanne, France	¹ University Of Liverpool, Liverpool, United Kingdom		¹ University of Duisburg-Essen and CENIDE, Duisburg, Germany, ² Materials Theory, ETH Zürich, Switzerland, Zürich, Switzerland
	EFFECT OF ZnO GROWTH ON THE MORPHOLOGICAL, MECHANICAL, BARRIER AND ANTIMICROBIAL PROPERTIES OF CHITOSAN BASED FILMS FOR FOOD PACKAGING APPLICATIONS	HIGHLIGHT EMPLOYING PHOSPHOPEPTIDES AS FUNCTIONAL AGENTS TO PRODUCE RENAL CLEARABLE NANO- DOTS FOR BIOIMAGING		INTERACTION OF LIGHT WITH HEMATITE HIERARCHICAL STRUCTURES: EXPERIMENTS AND SIMULATIONS
17.50	DiptIng. Olga Boura-Theodoridou ¹ , PhD Aris Giannakas ² , Professor Petros Katapodis ³ , Professor Haralambos Stamatis ³ , Professor Athanasios Lada- vos ² , Professor Nektaria-marianthi Barkoula ¹	Professor Zhenxin Wang ¹	'Paul-Drude-Institut für Festkörperelektronik, Berlin, Germany	Dr Monica Distaso ¹
	"Department of Materials Science and Engineering, University of Ioannina, Joannina, Greece, "Department of Business Administration of Food and Agricultural Enterprises, Laboratory of Food Technology, University of Patras, Agrinio, Greece, "Department of Biological Applications & Technology, University of Ioannina, Ioannina, Greece	¹ Changchun Institute Of Applied Chemistry, Chinese Academy Of Sciences, Changchun, China		'Fau Erlangen Nuremberg, Erlangen, Germany
	PMMA-BASED POROUS ORGANIC-INORGANIC COMPOSITES BY IN SITU SYNTHESIS OF Zno Nanoparticles	HIGHLIGHT CANCER DIAGNOSIS AND PROGNOSIS WITH SERS AND/OR FLUORESCENCE	ALLOYING THE GROUP III AND GROUP II-IV NI- TRIDES: THE Al2xMg(1-x)Si(1-X)N2 ALLOY SYSTEM	FeAI FOR SUSTAINABLE MAGNETOSTRICTIVE AND MAGNETOELECTRIC APPLICATIONS
18.10	Dr Davide Morselli ¹ , Dr Despina Fragouli ¹ , Dr Athanassia Athanassiou ¹	Prof Ramon Alvarez-Puebla 1	Mr.James B Quirk!, Dr Mikael Råsander!, Miss Piny Mathew', Mr. Jonathan Rackham!, Dr Robert Palgrave ² , Dr Michelle A Moram ¹	Withelm Huettenes ¹ , Matteo Cialone ^{2,3} , Prof Paola Tiberto ² , Prof Lindsay Greer ¹ , Prof Zoe Barber ¹
	¹Smart Materials Group, Istituto Italiano Di Tecnologia, Genova, Italy	¹Icrea-URV, Tarragona, Spain	¹ Department of Materials, Imperial College London, London, United Kingdom, ² Department of Chemistry, University College London, London, United Kingdom	¹ University Of Cambridge, Cambridge, United Kingdom, ² Istituto Nazionale di Ricerca Metrologica Torino (INRIM), Turin, Italy, ³ Università degli studi di Torino, Turin, Italy
	ELECTROACTIVITY AND AGEING OF IMMERSED CONDUCTING HYDROGEL	INTERACTIONS OF FUNCTIONALIZED GOLD NANOPARTICLES WITH SKIN	PHASE STABILITY AND ATOMIC MOBILITY OF NANO-CONFINED AGCU ALLOYS IN AGCU/ALN NANO-MULTILAYERS UPON HEATING	FIRST PRINCIPLES STUDY OF ORBITAL ORDER IN MN DOPED FeV204
18.30	Dr. Caroline Duc¹. Dr. Alexis Vlandas¹. Prof. George G. Malliaras⁴. Dr. Vincent Senez¹	Dr Rute Fernandes ¹ , Dr Neil Smyth ² , Professor Otto Muskens ¹ , <u>Associate Professor Antonios Kanaras</u> ¹	Dr Vicente Araullo-Peters ¹ , Dr Mirco Chiodi ¹ , Dr Claudia Cancellieri ¹ , Dr Jolanta Janczak-Rusch ¹ , Dr Lars Jeurgens ¹	<u>Dr. Tulika Maitra</u> ², Dibyendu Dey ¹, Professor Arghya Taraphder ¹
	'IEMN, CNRS, Univ. Lille, ISEN, Lille, France, [‡] Ecole Nationale Supérieure des Mines CMP-EMSE, MOC, Gardanne, France	Institute for Life Sciences, Physics and Astronomy, University of Southampton, Southampton, UK, ¹ General hospital, University of Souuthampton, Southampton, UK	'EMPA, Dubendorf, Switzerland	'Indian Institute Of Technology, Kharagpur, Kharagpur, India, ² Indian Institute Of Technology, Roorkee, Roorkee, India
	HOMOCONJUGATION IN POLY(PHENYLENE METHYLENE)S: UNEXPECTED FLUORESCENCE IN NON-n-CONJUGATED POLYMERS	QUANTUM DOT-BASED BIOCONJUGATES FOR IMAGING CELLULAR MEMBRANE POTENTIAL	FORMATION AND TUNABLE PROPERTIES OF DEAL- LOYED NANOPOROUS METALS STUDIED BY In-Situ RESISTOMETRY	
18.50	Andreas Braendle ¹ . Aleksandr Perevedentsev ¹ . Nathan J. Cheetham ² , Paul N. Sturvinou ¹ , Jörg A. Schachner ¹ , Nadia C. Mösch-Zanetti ⁴ , Markus Niederberger ¹ , Walter R. Caseri ¹	James Delehanty ¹	Eva-Maria Steyskal ¹ , Matthias Graf ² , Roland Würschum ¹ "Institute Of Materials Physics, TU Graz, Graz, Austria,	
	Department of Materials, ETH Zürich, Zürich 8093, Switzerland, Department of Physics and Centre for Plastic Electronics, Imperial College London, London SW7 2A2, United Kingdom, Department of Engineering	¹ Us Naval Research Laboratory, United States	*Materials Physics and Technology, TU Hamburg-Har- burg, Hamburg, Germany	
	SWY ZAZ, United vingulari, Vegaria men in Jegineering Science, University of Oxford, Oxford XX 1 3PJ, United Kingdom, Institute of Chemistry, University of Graz, Graz 80 10, Austria	,		
			HIGHLIGHT THERMODYNAMIC STABILITY AND ELASTIC PROPERTIES OF PHASES IN Au-Ni MICRO-PARTICLES A. Herz¹, Dr., Martin Friak²³, D. Rossberg¹,	
19.10			M. Hentschel ¹ , F. Theska ¹ , D. Wang ¹ , D. Holec ⁴ , M. Sob ^{32,5} , O. Schneeweiss ² , Prof. P. Schaaf ¹ "Department of Materials for Electronics and Electrical Framewing Institute of Materials Science and Engineering and	
			Linguiere in installed of Micro- and Manotechnologies MacroNano. Til limenau. Ilmenau. Germany, 'Institute of Physics of Moterials, Academy of Sciences of the Czech Republic. Bran. Czech Republic. 'Central European Institute of Technology, CEITEC MLI, Masanyk University, Bran. Czech Republic. 'Department of Physical Metalluryy and Materials Testing, Montanuniversitaet Leaben. Leaben, Austria. SDepartment of Chemistry, Faculty of Science, Masanyk University, Brno. Czech Republic	
19.30				
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Symposium	B2	В3	B5	B10
Room	Aimilios Riadis Hall/M2	CR I Hall/M2	Conference Room 1/M1	Maurice Saltiel Hall II/M2
Session Title	Modeling and Simulation in Light Metals	Steels & Refractories	Oxygen ion conductors and electrolytes	Fatigue and Fracture III - Welded Joints and Fracture Mechanics
Chairperson	Alan Luo	S. Milenkovic	Maria Stefanidou	Alexandros Savaidis
	HIGHLIGHT ALLOY DEVELOPMENT AND ADVANCED PROCESSING FOR LIGHT METALS: THE ROLE OF INTEGRATED COMPUTATIONAL MATERIALS ENGINEERING (ICME)	AB INITIO-BASED DESIGN OF A HIGH-TEMPERATURE Cr-Ni-Base Alloy	STUDY ON THE PREPARATION OF INERT ANODE MATERIALS AND ITS CORROSION PROPERTY IN MOLTEN SALT	HIGHLIGHT FATIGUE ASSESSMENT OF WELDED STRUCTURES BASED ON LOCAL STRAINS
17.30	Prof. Alan Luo ¹Ohio State University, Columbus, United States	Dr Vsevolod Razumovskiy¹, Dr Viktor Butrim², Alexander Beresnev², Anna Trushnikova², Sofia Varlamova², Prof. Igor Razumovskii²	Mr Yihan Liu ¹	Dr. Michail Malikoutsakis ¹ , Dr. Georgios Savaidis ¹ 'Aristotle University of Thessaloniki,
		¹ Materials Center Leoben Forschung Gmbh, Leoben, Austria, ² Joint-Stock Company "Kompozit", Korolev, Russia	¹Northeastern University, China, Shenyang, China	. Thessaloniki, Greece
	HIGHLIGHT INTEGRATED COMPUTATIONAL MATERIALS ENGINEERING FOR LIGHT METAL ALLOYS – STATUS AND PERSPECTIVES	GRAIN BOUNDARY CHEMISTRY ENGINEERING ON THE EXAMPLE OF Mo-Hf ALLOYS	CERAMIC ELECTRODES FOR ADVANCED OXIDATION OF EMERGENT CONTAMINANTS	FATIGUE STRENGTH OF WELDED ULTRA HIGH- STRENGTH STEEL JOINTS INCORPORATING LOW TRANSFORMATION TEMPERATURE (LTT) FILLER MATERIAL AND HIGH FREQUENCY MECHANICAL IMPACT (HFMI) POST-TREATMENT
17.50	Dr. rer. nat. Georg J. Schmitz Access E.v., Aachen, Germany	Daniel Scheiber ¹ , Katharina Leitner ² , Reinhard Pippan ³ , Peter Puschnig ⁴ , <u>Lorenz Romaner</u> ¹	Dr. Sergio Mestre ¹ , Dña. María José Sánchez-Rivera ¹ , Dra. Ana Gozalbo ¹ , Dr. Valentín Pérez-Herranz ²	<u>Dr. Martin Leitner</u> ¹, DiplIng. Markus Ottersböck¹,
		¹ Materials Center Leoben Forschung GmbH, Austria, ² Department of Physical Metallurgy and Materials Test- ing, Montanuinversität Leoben, Austria ² Erich Schmid Institut of Materials Science, Austrian Academy of Sciences, Leoben, Austria, ⁴ University of Graz, Institute of Physics, Graz, Austria	¹ Universitat Jaume I, Castellón, Spain, ² Universitat Politècnica de València, Valencia, Spain	Dr. Michael Stoschka ¹ , Dr. Wilhelm Maurer ² 'Montanuniversität Leoben, Chair of Mechanical Engineering, Leoben, Austria, ² voestalpine Slahl GmbH, Linz, Austria
	HIGHLIGHT EXACT THEORY OF VACANCY-MEDIATED SOLUTE TRANSPORT IN MAGNESIUM Associate Professor Dallas Trinkle '.	MICROSTRUCTURAL EVOLUTION OF BORON CONTAINING 9%Cr steel	THE EFFECT OF THE PRECURSOR POWDER SIZE ON THE ELECTRICAL AND SENSOR CHARACTERISTICS OF FULLY STABILIZED ZIRCONIA-BASED SOLID ELECTROLYTES	CRACK GROWTH BEHAVIOUR OF ALUMINIUM WROUGHT ALLOYS IN THE VERY HIGH CYCLE FATIGUE REGIME
18.10	Ravi Agarwal ¹	Evgeniy Tkachev', Andrey Belyakov', Rustam Kaibyshev ¹	Dr Olga Kurapova 12, Dr Alexander Shorokhov 1, Prof Vladimir Konakov 12	DiplWirtIng. Fatih Bülbül', M.Sc. Marcel Wicke ² , DiplIng. Tina Kirsten ³ , Prof. Angelika Brückner-Foit ³ , Prof. Martina Zimmermann ³ , Prof. Hans-Jürgen Christ ¹
	¹Univ. Illinois, Urbana-champaign. Urbana, United States	¹ Belgorod State University, Belgorod, Russian Federation	'St Petersburg State University, Saint Petersburg, Russian Federation, 'Peter the Great St. Petersburg Polytechnic University, Saint Petersburg, Russian Federation	¹ Universität Siegen, Siegen, Germany, ² Universität Kassel, Kassel, Germany, ³ Technische Universität Dresden, Dresden, Germany
	HIGHLIGHT A FIRST-PRINCIPLES ICME APPROACH TO CORRO- SION-RESISTANT MAGNESIUM ALLOY DESIGN	UNDERSTANDING THE INFLUENCE OF COMPOSITION GRADIENTS ON THE PRECIPITATION OF M ₂₂ C ₄ IN CENTRIFUGALLY CAST STEEL FURNACE TUBES	TUNING THE ELECTRICAL AND DIELECTRIC PROPERTIES OF Na0.5Bi0.5Ti03 PEROVSKITE BY CHEMICAL DOPING	FRACTURE MECHANICS APPLICATION TO FATIGUE LIFE DETERMINATION
18.30	Associate Director Santanu Chaudhuri 1 1 University of Illinois at Urbana-Champaign,	Dr. Manuel Roussel ¹ , Dr. Xavier Sauvage ¹ , Mélina Vermont ¹ , Charly Mougel ¹ , Dr. Annie Hauet ¹ , Prof. Michel Perez ² , Dr. Thibaut Chaise ² , Dr. Antonin Steckmeyer ² , Dr. Mathieu Couvrat ²	<u>Dr Fan Yang</u> ¹, Prof Derek Sinclair¹	Prof. Dr. Uwe Zerbst ¹ , Prof. Dr. Michael Vormwald ² "BAM, Berlin, Germany, "Technische Universität, Darmstadt, Germany
	Champaign, United States	¹ GPM - Université De Rouen, Rouen, France, ² MATEIS	¹ University Of Sheffield, Sheffield, United Kingdom	
	GINZBURG-LANDAU THEORY OF LPSO FORMATION	EFFECT OF THERMAL CYCLING ON AGING OF AN AUSTENITIC STAINLESS STEEL	INFLUENCE OF Eu3+ AND Tb+3 DOPING CONTENT ON SCINTILLATION PROPERTIES OF 64203 PRODUCED BY PECHINI Sol – GEL METHOD	FATIGUE CRACK GROWTH IN A SINGLE CRYSTAL NICKEL BASE SUPERALLOY
18.50	Professor Alexander Umantsey	Dr Coralie Parrens ¹² . Dr Jacques Lacaze ¹ , Dr Benoit Malard ¹ , Mr Jean-Luc Dupain ² , <u>Pr Dominique Poquillon</u> ¹	Tolga Taylı¹, Behiye Yüksel², Berk Alkan³, Canhan Şen⁴, A. Umut Söyler5, Prof. Dr. Gökhan Orhan ¹	MSc Frans Palmert ^{1,2} , Prof Johan Moverare ¹ , PhD David Gustafsson ²
	'Fayetteville State University, Fayetteville, United States	¹ Cirimat, Univ Toulouse, Cirimat, INP-ENSIACET 4 Allée Emile Monso - BP443 31030 Toulouse Cedex 4, France, ² Safran Landing Systems, 9 Rue Guynemer, 64400 Bidos, France	"Istanbul University, "Istanbul Aydın University, "Istanbul Technical University, "Sabanci University, 5Teta Cam Teknolojileri San. Tic. Ltd. Şti	Linköping University, Linköping, Sweden, ² Siemens Industrial Turbomachinery AB, Finspång, Sweden
	HIGHLIGHT UTILITY OF A DIFFUSION MOBILITY DATABASE FOR LIGHT METALS	MODELLING HEALING PROCESSES IN CREEP STEELS		CORROSION FATIGUE BEHAVIOUR OF HFMI-TREATED WELDED JOINTS OF STEEL S355: CORRELATION OF TESTING METHODS
19.10	Professor and Chair Michele Manuel	<u>Casper Versteylen'</u> , Dr Marcel Sluiter', Dr Niels van Dijk ¹		DiplIng. Stefanos Gkatzogiannis ¹ , M. Eng. Joscha Weinert ² , Prof. DrIng. Imke Engelhardt ² , Prof. DrIng. Peter Knoedel ¹ , Prof. DrIng. Thomas Ummenhofer ¹
	¹ University Of Florida, Gainesville, United States	¹ Technische Universiteit Delft, Delft, Netherlands		'Kit Steel & Lightweight Structures Research Center For Steel, Timber & Masonry, Karsrluhe, Germany, ² Munich University of Applied Sciences, Munich, Germany
19.30				

EUROMAT2017 7<u>1</u>



Symposium	B11	C1	C2	C6
Room	Maurice Saltiel Hall III/M2	Friends of Music Hall/M1	Conference Room 4/M1	I-15/M1
Session Title	Shape-Memory-Alloys	Coatings and thin films 3/6 - Coatings structure II	Laser interference lithography/direct write	Welding 2
Chairperson	R. Everett	Z. Grzesik, A. Cavaleiro	Ioanna Zergioti	Christof Sommitsch
	ON THE SUPERELASTIC BEHAVIOR OF THE NITI SHAPE MEMORY ALLOY AT VARIOUS HEAT TREATMENT CONDITIONS	HIGHLIGHT ROLE OF POINT DEFECTS FOR PREDICTING PHASE STABILITY: A CASE STUDY OF Ta-AL-N AND Nb-AL-N SYSTEMS	FABRICATION OF PILLAR-LIKE MICROSTRUCTURES ON STAINLESS STEEL BY PICOSECOND DIRECT LASER INTERFERENCE PATTERNING	EXPERIMENTAL INVESTIGATION AND STATISTICAL ANALYSIS OF KEY PARAMETERS IN SELF-PIERCING RIVETING OF AL BLANKS
17.30	Boutheina BEN FRAJ ¹ , Amen Gahbiche ² ,	Dr. David Holec ¹ , Ferdinand Pacher ² , Nikola Koutná ^{2,3} , Dr. Christian Koller ² , Prof. Paul Mayrhofer ² "Department of Physical Metallurgy and Materials Testina, Montanuniversität Leoben, Leoben, Austria.	M.Sc. Alfredo Aguilar ¹ , Prof. DrIng. Andrés Fabian Lasagni ^{1,2}	Bsc. Florian Hönsch ¹ , DiplIng. Dr. techn. Robert Vollmer ¹ , UnivProf. DiplIng. Dr. techn. Christof Sommitsch ¹
	"Mechanical Laboratory Of Sousse, National Engineer- ing School Of Sousse, University of Sousse, Sousse, Tunisia, "Laborators de Génie Mécanique LGM, Ecole Nationale d'Ingénieurs de Monastir ENIM, Université de Monastir, Monastir, Tunisia		'Fraunhofer Institute for Material and Beam Technol-ogy, Winterbergstr. 28. Dresden, Germany, ₹Technical University Dresden, George-Bähr-Str. 3c, Dresden, Germany	Tu Graz, Graz, Austria
	MICROSTRUCTURAL INVESTIGATION AND THERMODYNAMIC MODELLING OF Fe-Mn-Al-Ni SHAPE MEMORY ALLOYS	SYNTHESIS OF (Nb,Ti)N ULTRATHIN FILMS BY CHEMICAL VAPOR DEPOSITION	LASER MANUFACTURED PAPER DEVICES FOR MULTIPLEXED DETECTION OF BACTERIA AND THEIR RESISTANCE TO ANTIBIOTICS	HEAT ASSISTED SELF-PIERCE RIVETING FOR HIGH STRENGTH LIGHT METAL ALLOYS
17.50	Alexander Walnsch ¹ , Mario J. Kriegel ¹ , Malte Voll- mer ² , Olga Fabrichnaya ¹ , Thomas Niendorf ² , Andreas Leineweber ¹	<u>Dr Elisabeth Blanquet</u> ¹, Dr Nikolaos Tsavdaris¹. Manoel Jacquemin¹, Gilles Renou¹, Dr Eirini Sari- giannidou², Stéphane Coindeau¹, Dr Michel Pons¹, Dr Frédéric Mercier¹	Dr Ioannis Katis ¹ , Dr Peijun He ¹ , Dr Susanna Sherwin ² , Prof Charles Keevil ² , Prof Robert Eason ¹ , Dr Collin Sones ¹	Dipling. (fh), Msc Georg Kirov ¹
	¹ TU Bergakademie Freiberg, Germany, ² Universität Kassel, Germany	¹ Univ. Grenoble Alpes. CNRS, Grenoble INP, SIMaP, Grenoble, France, ² Univ. Grenoble Alpes, CNRS, Grenoble INP [*] , LMGP, Grenoble, France	¹Optoelectronics Research Centre, University of South- ampton, Southampton, United Kingdom, ²Environmen- tal Healthcare Unit, Biological Sciences, University of Southampton, Southampton, United Kingdom	¹ Ait Austrian Institute Of Technology, LKR Leichtmetall- kompetenzzentrum Ranshofen GmbH, Ranshofen, Austria
	NITINOL FOR VASCULAR STENT APPLICATIONS: AN EXPERIMENTAL STUDY ON FATIGUE PROPERTIES AND MICROSTRUCTURE	EFFECT OF BIAS VOLTAGE INDUCED MICROSTRUCTURE ON THE MECHANICAL PROPERTIES OF NEW NANO- STRUCTURED TI-Nb-Zr COATINGS FOR IMPLANT MATERIALS	LASER FABRICATION OF HIGH-PERFORMANCE FLEXIBLE PLASMONIC WAVEGUIDES	INVESTIGATION INTO MECHANICAL BEHAVIOR OF FRICTION STIR WELDED DUAL PHASE 600 STEEL PLATES
	Dr Anna Zervaki ¹ , Dr Helen Kamoutsi ¹ , Prof. George Fourlaris ² , Dr Panagiotis Tsakiridis ² , <u>Prof. Antonios</u> <u>Giannakopoulos²</u>	Doctor Emilio Frutos Torres 1, Doctor Miroslav Karlik², Doctor José Antonio Jiménez², Doctor Tomas Polcar 1,4	Dr. Filimon Zacharatos ¹ , Mrs Parva Chhantyal ² , Mr. Ioannis Theodorakos ¹ , Prof. Carsten Reinhardt ² , Prof. Dr. rer. nat. Boris N. Chichkov ² , Assoc. Prof. Ioanna Zergioti ¹	Semih Aktarer¹, Prof.Dr. Tevfik Kuçukomeroglu², Asst. Prof. Guven Ipekoglu³, Prof.Dr. Gurel Cam³
18.10	Laboratory of Materials, Dept. of Mechanical Engineer- ing, Pedion Areos, 38334 Volos, Greece, Volos, Greece, 'Physical Metallurgy Laboratory, School of Mining and Metallurgical Engineering, NTUA, Heroon Polytehneiou 9, 15780, Zografou, Athens, Athens, Circece, 'Laboratory of Strength of Materials and Micromechanics, Dept. Of Civil Engineering, Pedion Areos, 38334 Volos, Greece, Volos, Greece	Department of Control Engineering, Faculty of Electrical Engineering, Czech Technical University in Prague, Prague, Czech Republic, 'Department of Materials, Faculty of Nuclear Sciences and Phys- ical Engineering, Czech Technical University in Prague, Prague, Czech Republic, 'Scentro Nacional de Investigaciones Metalurgicas, CENIM-CSIC, Madrid, Spain, 'Engineering Materials, University of Southampton, Southampton, United Kingdom	'National Technical University Of Athens (NTUA) - School of Applied Mathematics and Physical Sciences - Department of Physics, Athens, Greece: "Nanotech- nology Department, Laser Zentrum Hannover e.V., Hannover, Germany	Recep Tayyip Erdogan University, Rize, Turkey, 'Karadeniz Technical University, Trabzon, Turkey, 'Iskenderun Technical University, Hatay, Turkey
	PHASE TRANSFORMATIONS IN SUPERELASTIC NITI DURING STRAIN PATH CHANGE	AMORPHOUS ALUMINUM OXIDES: CVD PROCESSING, LOCAL COORDINATION AND MULTIFUNCTIONALITY	DIODE-LASER-ASSISTED FABRICATION OF NANOCOMPOSITES BY SOLID - AND LIQUID-STATE SPINODAL DECOMPOSITION	MECHANICAL CHARACTERIZATION OF TITANIUM LINEAR FRICTION WELDS
18.30	Dr. Efthymios Polatidis ¹ , Mr. Wei-Neng Hsu ^{1,2} , Dr. Miroslav Smid ¹ , Dr. Steven Van Petegem ¹ , Prof. Helena Van Swygenhoven ^{1,2}	Dr. Constantin Vahlas ¹ , Dr. Vincent Sarou-Kanian ² . Pr. Brigitte Caussat ³ , Mrs. Diane Samelor ¹ , Dr. Loic Baggetto ¹ , Dr. Pierre Florian ²	<u>Dr. Karl-Heinz Heinig</u> ¹ , Dr. Mykola Vinnichenko ² , Eric Schumann ¹	Mr. Juan-Manuel Garcia 1, PhD. Thilo Morgeneyer 1
	'Swiss light source, Paul Scherrer Institute, CH-5232 Villigen PSI, Switzerland, 'Neutrons and X-rays for Mechanics of Materials, IMX, Ecole Polytechnique Fed- erale de Lausanne, CH-10 12 Lausanne, Switzerland	¹ CIRIMAT-CNRS, Toulouse, France, ² CEMHTI-CNRS, Orleans, France, ² LGC-INPT, Toulouse, France	'Helmholtz-Center Dresden-Rossendorf HZDR, Dresden, Germany. 'Fraunhofer Institut für keramische Technologien und Systeme, Dresden, Germany	'MINES ParisTech, PSL - Research University, Centre des matériaux CNRS UMR 7633, BP 87 9 1003 Evry, France
	ISOELECTRONIC DOPING EFFECTS ON THE MARTENSITIC TRANSITION IN NIMES BASED SHAPE MEMORY ALLOYS	SCANNING KELVIN PROBE BLISTER STUDIES OF THE DELAMINATION OF EPOXY FILMS ON ORGNOSILANE MODIFIED Znmgal ALLOY COATED STEEL	FABRICATION OF ADVANCED SECURITY ELEMENTS USING DIRECT LASER INTERFERENCE PATTERNING	IMPROVING THE BOND STRENGTH OF STEEL AND ALUMINUM JOINTS - TOWARDS NEW ASPECTS OF THE BONDING MECHANISM IN COLD WELDING
	Dr. Nitya Ramanan ¹ , Mr. Girish Hemraj ² , Dr. Wojciech Olszewski ¹ , 5, Dr. Carlo Marini ¹ , Dr. Manvendra Kumar ² , Dr. Parasmani Rajput ⁴	M.Sc. Richard Grothe ¹ , M.Sc. Martin Wiesing ¹ , Dr. Ignacio Giner ¹ , B.Sc. Dennis Meinderink ¹ , Prof. DrIng. Guido Grundmeier ¹	DiplIng. Florian Rößler ¹ , Dr. Tim Kunze ² , Prof. DrIng. Andrés Fabián Lasagni ^{1,2}	Abdulrahman Altin ¹ . Christiane Gerlitzky ² . Nicolas Peter ³ . Dr. Christian Liebscher ³ . Prof. Dr. Groche Peter ² . Prof. Dr. Andreas Erbe ¹ 4
18.50	'Alba Synchrotron, Barcelona, Spain, 'School of studies in Electronics and Photonics, Pt. Ravishankar Shukla University, 49200 1, India, Raipur, India, 'Nanotech-nology Application Centre, University of Allahabad, India, 'Alomic & Molecular Physics Division, Bhabha Alomic Research Centre, Mumbai, India, 5Faculty of Physics, University of Bialystok, 'L K. Ciolkowskiega street, Poland	¹ Universität Paderborn, Paderborn, Germany	. ¹ TU Dresden, Dresden, Germany, ² Fraunhofer IWS, Dresden, Germany	"Max-Planck-Institut für Eisenforschung GmbH. Depart- ment of Interface Chemistry and Surface Engineering, Düsseldarf, Germany, "Technische Universität Darm- stadt. Institute for Production Engineering and Forming Machines, Darmstadt. Germany, "Max-Planck-Institut für Eisenforschung GmbH. Department of Structure and Mi- cro-/Nanomechanics of Materials, Düsseldorf, Germany, "Department of Materials Science and Engineering," NTIVU, Norwegian University of Science and Technology, Trondheim, Norway
	EFFECT OF LOW TEMPERATURE AGING AND DSC CYCLING ON THE MICRODOMAINS AND MICRO- STRUCTURES OF Ni50.6Ti49.4	AB INITIO STUDY OF THE ATOMIC LEVEL STRUCTURE OF TIO2-TIN INTERFACES FOR ANTIBIOFOULING APPLICATIONS	HIGH-REPETITION RATE FEMTOSECOND LASER PROCESSING OF ACRYLIC INTRA-OCULAR LENSES	HOT ROLL BONDING OF ALUMINUM TO TWIN ROLL CAST (TRC) MAGNESIUM AND ITS SUBSEQUENT DEFORMATION BEHAVIOR
19.10	Saeid Pourbabak ¹ , Dr. Xiebin Wang ² , Prof. Dirk Van Dyck ¹ , Prof. Jan Van Humbeeck ² , Prof. Bert Verlinden ² ,	<u>Dr Julio Gutierrez Moreno</u> ¹, Dr Michael Nolan¹	Dr. Daniel Sola 1, Dr. MJ Clemente ² , Dr. Rafael Cases ³ , Professor Pablo Artal 1	Haitham Saleh, M. Schmidtchen, R. Kawalla
	Prof. Dominique Schryvers¹ "Emat, University Of Antwerp, Antwerp, Belgium, ²MTM, Department of Materials Engineering, University of Leuven, Leuven, Belgium	¹ Tyndall National Institute, University College Cork, Cork, Ireland	· Laboratorio de Optica. Centro de Investigacion en Optica y Nanofisica. Universidad De Murcia. Murcia. Spain. ² Instituto de Ciencia de Materiales de Aragon. Universidad de Zaragoza-CSIC. Dion. Química Organica. Zaragoza. Spain. ² Departamento de Fisica de la Materia Condensada. Universidad de Zaragoza. Zaragoza. Spain	Tu Freiberg/ Institute of Metal Forming, Freiberg, Germany
		EFFECT OF ELECTROPOLISHING ON CONVENTIONAL AND SEVER SHOT PEENED SURFACES PROPERTIES		
19.30		Dr. Gemma Vara Salazar¹, Dr. Patricia López-Ruiz¹, Dr. M. Belén García-Blanco¹, Dr. Oihane Garrido¹, Dr. Inés Fernández-Pariente², Dr. MArio Guagliano³, Dr. Sarah Bagherifard³		
		¹ IK4 CIDETEC, Surface Engineering Area, San Sebastián, Spain, ² University of Oviedo, Department of Materials Science and Metallurgical Engineering, Oviedo, Spain, ² Politecnico di Milano, Department of Mechanical Engineering, Milan, Italy		



Symposium	A1 ZU1/	D4	D9	E1
Room	Museum Hall /M2	Library Hall/M2	Maurice Saltiel Hall I/M2	CR II Hall/M2
Session Title	In situ characterization I	Measurement techniques of mechanical fields at micro/nano scales	Advanced Nuclear Ceramics	Hydrogen Storage
Chairperson	Martin Albrecht	Xavier Maeder & Eric Le Bourhis	M. Angiolini	Rolf Hempelmann & Toshiyuki Mori
	KEYNOTE/INVITED IN SITU ELECTRON MICROSCOPY STUDIES OF FUNCTIONAL NANOSTRUCTURED MATERIALS – LINKING ATOMIC STRUCTURE TO PROPERTIES	HIGHLIGHT STRESS FIELD AND PLASTIC DEFORMATION MAPPING IN ROOM AND ELEVATED TEMPERATURE MICRO-CANTILEVER TESTING VIA IN-SITU HR-EBSD CHARACTERIZATION	KEYNOTE/INVITED JOINING OF SIC-BASED MATERIALS FOR NUCLEAR APPLICATIONS	KEYNOTE/INVITED HIGH-DENSITY HYDROGEN FILMS ADSORBED IN ENGINEERED CARBON NANOSPACES
17.30		Dr. Ast Johannes ¹ , Dr. Michler Johann ¹ , <u>Dr. Xavier Maeder</u> ¹		Page Neiffer Andrew Cillege
	Professor Eva Olsson ¹	Empa, Thun, Switzerland	Professor Monica Ferraris ¹	Peter Pfeifer!, Andrew Gillespie!, Elmar Dohnke!, Lucyna Firlej ² , Bogdan Kuchta ³
		FULL-FIELD DEFORMATION MEASUREMENTS OF PHASE TRANSFORMING MATERIALS DURING IN-SITU SEM MECHANICAL TESTING Dr. Miroslav Smid¹, Wei-Neng Hsu¹², Dr. Efthymios	· 'Politecnico Di Torino, Torino, Italy	
17.50		Polatidis ¹ , Dr. Steven Van Petegem ¹ , Prof. Helena Van Swygenhoven ^{1,2}		¹ Department of Physics, University of Missouri, Columbia, United States, ¹ Laboratoire Charles Coulomb (L2C), UMR 5221 CNRS-Université de Montpetlier, 34095 Montpetlier, France, ² Laboratoire
	¹ Department of Physics. Chalmers University Of Technology, Gothenburg, Sweden	'Swiss light source, Paul Scherrer Institute, Villigen, Switzerland, 'Neutrons and X-rays for Mechanics of Materials, EPFL, Lausanne, Switzerland		MADIREL, UMR 7246 CNRS-Aix-Marseille Université, 13396 Marseille, France
	HIGHLIGHT DYNAMIC STUDIES OF NUCLEATION AND GROWTH PHENOMENA OF NANOMATERIALS	LOCAL STRAIN AROUND VERMICULAR GRAPHITE IN CAST IRON REVEALED BY SEM AND DIC COMBINATION	KEYNOTE/INVITED IN SITU 3D OBSERVATION OF MECHANICAL DAMAGE WITHIN SIC-SIC CERAMIC MATRIX COMPOSITES FOR NUCLEAR FUEL CLAD	STRUCTURAL AND HYDROGEN ABSORPTION- DESORPTION PROPERTIES OF La ² -x-yYxMgyNi7 COMPOUNDS Dr. Micheline Warde ¹ , Nicolas Madern ¹ , Dr. Junxian
18.10	Prof. Saso Sturm¹, Bojan Ambrožič¹, dr. Marjan Bele²	Prof. Lei Zhang¹, Dr. Cuihong Li¹		Dr. Patrick Bernard ² , Dr. Michel Latroche ¹
	'Jožef Stefan Institute, Ljubljana, Slovenia, 'National Institute of Chemistry, Ljubljana, Slovenia	¹ Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China	Mr Shixiang Zhao ¹ , Dr Biao Cai ² , Prof. Peter Lee ³ , <u>Prof. James Marrow</u> ¹ ²	'Université Paris Est, ICMPE, CNRS-UPEC, Thiais, France, 'SAFT, Direction de la Recherche, Bordeaux, France
	IN-SITU TRACKING THE STRUCTURAL AND CHEMI- CAL EVOLUTION OF NANOSTRUCTURED Cucy ALLOYS	DIC STRAIN ANALYSES AUGMENT MICRO-TENSILE CHARACTERIZATION OF TITANIUM ALLOYS		HIGHLIGHT B-SUBSTITUTED NANOPOROUS CARBONS FOR HYDROGEN STORAGE: FROM COMPUTER SIMULATIONS TO EXPERIMENTAL VERIFICATION
18.30	<u>Dr. Zaoli Zhang</u> ¹, Mr Jinming Guo¹, Professor Gerhard Dehm², Professor Reinhard Pippan¹	<u>Dr. Salahudin Nimer</u> ¹² . Dr. Richard Everett ² . Prof. Marc Zupan ²	¹ University Of Oxford, Oxford, United Kingdom, ² Research Complex at Harwell, Harwell, United Kingdom	Prof Lucyna Firlei ^{1,3} , prof Bogdan Kuchta ^{2,3} , prof Peter Pfeifer ³ 'Laboratoire Charles Coulomb (L2C), UMR 5221
	¹ Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria, ² Max-Planck-In- stitut für Eisenforschung, Düsseldorf, Germany	'Johns Hopkins University Applied Physics Laboratory, Laurel, United States, 'University Of Maryland, Balti- more County, Baltimore, United States		CMRS-Université de Montpellier, Montpellier, Franc ² Laboratoire MADIREL, UMR 7246 CNRS-Aix-Marsei Université, Marseille, France, ¹ Department of Physic and Astronomy, University of Missouri, Columbia, U.
	IN SITU TEM HEATING IN COMBINATION WITH ACOM-STEM TO FOLLOW THE PRECIPITATION OF NANO-SCALED CARBIDES IN A LOW-CARBON LATH MARTENSITE	COMPREHENSIVE CHARACTERIZATION OF DISLO- CATIONS BY ELECTRON CHANNELING CONTRAST IMAGING IN SCANNING ELECTRON MICROSCOPE: FUNDAMENTAL AND PRACTICAL ASPECTS	THERMOMECHANICAL PERFORMANCES OF SIC/SIC COMPOSITES FOR NUCLEAR APPLICATIONS	HYDROGEN STORAGE PROPERTIES OF AN INTERMETALLIC POWDER. ROLE OF THE POWDER MANUPACTURING PROCESS ON ITS PROPENSITY TO ACTIVATION
18.50	ME Ankush Kashiwar ^{1,2} , Lutz Morsdorf ³ , Dr. Aaron Kobler ⁴ , Dr. Horst Hahn ^{1,2} , Dr. C. Cem Tasan ⁵ , Dr. Christian Kübel ^{1,6}	Ms Hana KRIAA', Dr Antoine GUITTON', Dr Nabila MALOUFI'	<u>Frédérique Bourlet</u> ¹, Christophe Lorrette¹, Thomas Guilbert¹, Cédric Sauder¹, Gérard Vignoles²	Dr Anne Maynadier¹, Dr HDR David Chapelle¹, Dr Dimitri Claudel¹, Pr Philippe Nardin¹, Pr Dominique Perreux¹, Pr Frederic Thiebaud¹
	Institute of Nanotechnology, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen, Germany, Joint Research Laboratory Nanomaterials, Technische Universität Darmstadt, Darmstadt, Germany, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf, Germany, *EISS Microscopy, Peabody, USA, *Operatment of Materials Science and Engineer- ing, Massachusetts Institute of Technology, Cambridge, USA, *Kartsuhe Nano Micro Facility, Kartsuhe Institute of Technology, Eggenstein-Leopoldshafen, Germany	¹ Laboratoire d'Étude des Microstructures et de Mécanique des Matériaux (LEM3) — UMR CNRS 7239, University of Lorraine., Metz, France	¹ DEN-Service de Recherches Métallurgiques Appliquées, CEA, Université Paris-Saclay, Gif Sur Yvette, France, ² Université de Bordeaux, LCTS, Pessac, France	¹ Univ.bourgogne Franche Comté, FEMTO-ST Institut Département of Applied Mechanics, CNRS/UFC/ENS MM/UTBM, Besançon, France
		COMBINED MICRO-SCALE FULL-FIELD STRAIN MEASUREMENTS AND FINITE ELEMENT MODELLING FOR THE STUDY OF DAMAGE INITIATION IN DUAL-PHASE STEELS	STUDY OF MATERIALS BEHAVIOUR IN CONDITIONS SIMULATING HELIUM COOLANT IN V/HTR AND GFR SYSTEMS	REVIEW OF HYDROGEN ADSORPTION MODELING IN POROUS SYSTEM
19.10		Dr Christophe Pinna¹, Ms Nurrasyidah Rohaizat¹, Dr Khaled Alharbi², Dr Hassan Ghadbeigi¹, Dr Dave Hanlon³	Jana Kalivodova¹, Jan Berka¹, Jozef Dámer¹, Jan Vít¹, Pavel Hanus², Zuzana Skoumalová³	Prof. Bogdan Kuchta ¹ , Prof. Lucyna Firlej ² , Prof. Peter Pfeifer ³
		¹ The University Of Sheffield. Sheffield. United Kingdom. ² Taibah University, Madinah, Saudi Arabia, ³ Tata Steel R&D, IJmuiden. The Netherlands	l Centrum výzkumu Rež s.r.a., Prague, Czech Re- public, ² Technická Univerzita v Liberci, Studentská 1402/2, 46117 LiberecI, Czech Republic, ² UJV Řež a.s., Husinec- Řež, Hlavni 130, 25068 Husine-Řež, Czech Republic	'Aix-Marseille University, Marseille, France, 'University of Montpellier, Montpellier, France, 'University of Missouri, Columbia, USA
			TOWARDS THE PRODUCTION OF PHASE-PURE Zr-BASED MAX PHASES	
19.10			Thomas Lapauw¹², Bensu Tunca¹², Dr. Konstantza Lambrinou¹, Prof. Dr. Jef Vleugels²	
			¹ SCK CEN, Mol, Belgium, ² KU Leuven, Leuven, Belgium	

Symposium	E2	E3	F1
Room	CR III Hall/M2	Rehearsal Room 5.17/M1	3-20/M1
ession Title	Li cathodes / Li anodes	Piezoelectrics and Energy Harvesting	Materials for cartilage regeneration. Processing of scaffolds
Chairperson	J. Scoyer	Spyros Diplas	Sophia Tsipas
	Co(0H)2@Mn02 NANOSHEET ARRAYS WITH SUPERIOR LITHIUM STORAGE PERFORMANCE	HIGHLIGHT PROCESSING OF LEAD-FREE PIEZOELECTRIC MATERIALS	A GAM STRATEGY WITH MSC SUPPORTED ON COLLAGEN MICROSPHERES FOR THE REGENERATION OF CARTILAGE
17.30	Dr Manab Kundu¹, Dr Ann Mari Svensson¹	Dr Mari-Ann Einarsrud ¹ , MSc Mads Christensen ¹ , Dr Ky-Nam Pham ¹ , Dr Astri Bjørnetun Haugen ¹ , Dr Tor Grande ¹	Dr Sophie Raisin ¹ , Dr Marie Morille ¹ , Dr Marc Mathieu ² , Dr Daniele Noel ² , Pr Christian Jorgensen ³ , Pr Jean-Marie Devoisselle ¹ , <u>Pr Emmanuel Belamie^{1,2}</u>
	'Norwegian University of Science and Technology (NTNU), Trondheim, Norway	'NTNU Norwegian University of Science and Technology, Trondheim, Norway	¹ ICBM - MACS. Montpellier, France, ² EPHE, PSL Research University, Paris, France, ² INSERM U1183, Montpellier, France
	FACILE ONE-POT SYNTHESIS OF METAL PHOSPHIDE -NITROGEN-DOPED CARBON HYBRID NANOSHEET AS ULTRA-STABLE ANODE FOR LIBS AND SIBS	HIGHLIGHT PIEZOCERAMIC MATERIALS FOR VIBRATIONAL ENERGY HARVESTING	3D PRINTED SILICA-GELATIN SOL-GEL HYBRID SCAFFOLDS FOR CAR- TILAGE TISSUE ENGINEERING - EFFECTS OF MATERIAL GEOMETRY ON CARTILAGINOUS MATRIX FORMATION
17.50		<u>Dr. Erling Ringgaard</u> ¹ , Dr. Tomasz Zawada ¹ , Ms. L.M. Bierregaard ¹ ,	Dr. Siwei Li¹, Dr. Maria Nelson¹, Prof. Molly Stevens¹, Prof. Julian Jones¹
	Professor Genqiang Zhang' 'University of Science and Technology of China, Hefei, China	Dr. Michele Guizzetti ¹ , Dr. Ruichao Xu ¹ 'Meggitt Sensing Systems, Kvistgaard, Denmark	¹Imperial College London, London, United Kingdom
	HIGH POWER AND HIGH ENERGY OLIVINES FOR LITHIUM BATTERIES: FROM GRAMS TO TONS	HIGHLIGHT ADDITIVE PRINT MANUFACTURE OF FILM BASED MICRO ENERGY HARVESTING DEVICES	SOL-GEL DERIVED LITHIUM-RELEASING BIOACTIVE GLASS FOR CARTILAGE REGENERATION
	Dr. Michel Trudeau', Dr Andrea Paolella', Dr Abdel Guerfi', Dr Pierre Hovington', Dr Ashok Vijh', Professor Alain Mauger ² , Dr Christian M. Julien ³ , Dr Michel Armand ⁴ , Dr John B. Goodenough ⁵ , Dr Karim Zaghib'	Professor Robert Dorey ¹ , Dr Rebecca Townsend ¹ , Dr Ewa Jakubczyk ¹	<u>Dr. Siwei Li</u> ¹, Dr. Anthony Macon¹, Miss Manon Jacquemin¹, Prof. Molly Stevens¹, Prof. Julian Jones¹
18.10	¹Hydro-Quebec Research Institute, Varennes, Canada ²Physicochimie des Electrolytes et Nanosystèmes (PHENIX), CNRS UMR 8234, Sorbonne University, UPMC Uni, Paris 6, Paris, France, ¹Institut de Minéralogie de Physique des Matériaux et de Cosmochimie (IMPMC), CNRS UMR 7590, Sorbonne University, UPMC Uni Paris 6, Paris, France, ²-ClC Energygune, Minano, Spain, 5University of Texas at Austin, Austin, United-Sates	'Centre of Engineering Materials, University Of Surrey, Guildford, United Kingdom	Imperial College London, London, United Kingdom
	LASER PYROLYSIS FOR THE CONTROLLED SYNTHESIS OF AMORPHOUS OR CRYSTALLINE SI@C NANOPARTICLES - MATERIAL SYNTHESIS AND PERFORMANCE CHARACTERIZATION IN LI-ION BATTERIES	SPECTROSCOPY BASED CHARACTERIZATION OF BAND GAPS AND BAND ALIGNMENT IN MATERIALS FOR ENERGY HARVESTING	NON-THERMAL PLASMA COATED 3D ADDITIVE MANUFACTURED SCAFFOLDS FOR TISSUE ENGINEERING
18.30	John P. Alper ¹² , Florent Boismain ¹ , Julien Sourice ¹² , Willy Porcher ² , Eddy Foy ¹ , Pierre Eugene Coulon ¹ , Aurélie Habert ¹ , Eric De Vito ² , Cecíle Reynaud ¹ , Cedric Haon ¹ , <u>Nathalie Herlin Boime</u> ¹	Dr. Ingvild Julie Thue Jensen¹, Dr. Klaus Magnus Johansen², Adj. Assoc. Prof. Spyros Diplas¹, Adj. Prof. Ole Martin Løvvik¹, Dr. Vishnukanthan Venkatachalapathy², Assoc. Prof. Øystein Pryt², Prof. Andrej Yu. Kuznetsov², Assoc. Prof. Anette E. Gunæs², Prof Edouard Monakhov², Prof Bengt Svensson², Prof Leonard Brillson³, Adj. Prof Randi Haakenaasen⁴, Adj. Assoc. Prof Espen Flage-Larsen¹	Pieter Cools ¹ , Nathalie De Geyter ¹ , Rino Morent ¹
	¹ NIMBE, CEA - CNRS UMR3685, Saclay, France, ² CEA, LITEN, 17 rue des martyrs, Grenoble, France	'SINTEF Materials And Chemistry, Oslo, Norway, ² University of Oslo, Oslo, Norway, ³ Ohio State University, Columbus, USA, ⁴ Norwegian Defence Research Establishment, Kjeller, Norway	'Ghent University, Department of Applied Physics, Research Unit Plasma Technology, Ghent, Belgium
	INVESTIGATING THE REACTION MECHANISM OF HIGH-PERFORMANCE NAFEPO4 AS A CATHODE MATERIAL FOR NA-Ion BATTERIES	MATERIALS AND REACTORS FOR THERMOCHEMICAL ENERGY STORAGE	BIOMIMIC SCAFFOLD FABRICATION VIA DUAL SYRINGE ELECTROSPINNING SYSTEM FOR DUAL DRUG ELUTED STENTS
18.50	Dr. Ghulam Ali [†] , Dr. Kyung Yoon Chung [†]	Dipl. Chem. Eng., MSc. Kyriaki G. Sakellariou ¹² , Dipl. Chem. Eng. Nikolaos I. Tsongidis ¹² , Dipl. Eng. in Materials Science and Engineering Chrysoula Pagkoura ¹ , Dipl. Chem. Eng., PhD George Karagiannakis ¹ , Chem. Eng., PhD., Head BD CERTH, APTL/CPERI/CERTH / Prof., Dep. of Chem. Eng., AUTH Atthanasios G. Konstandopoulos ¹²	Veroniki Bakola ¹ , Varvara Karagkiozaki ^{1,2} , Fotini Pappa ^{1,2} , Aikaterini- Rafailia Tsiapta ¹ , Eleni Pavlidou ³ , Theodora Choli-Papadopoulou ⁴ , loannis Moutsios ¹ , Stergios Logothetidis ¹
	¹ Korea Institute Of Science And Technology. Seoul. South Korea	Aerosol & Particle Technology Laboratory- APTL/CPERI/CERTH, Thermi, Greece, School of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece	'Nanomedicine Group, Lab for 'Thin Films- Nanomaterials, Nanosystems Nanometrology' Department of Physics, Aristotle University of Thessalon Greece, Thessaloniki, Greece, 'BL Nanobiomed P.C. Thessaloniki, Greece, saloniki, Greece, 'Department of Physics, Aristotle University of Thessalo Greece, Thessaloniki, Greece, 'Department of Chemistry, Aristotle Univers Thessaloniki, Greece, Thessaloniki, Greece
		THERMAL EMISSION BASED ENERGY HARVESTING AND CONVERSION USING FUNCTIONAL NANOMATERIAL INTEGRATED OPTICAL DEVICES	
		Dr. Paul Ohodnicki ¹	
19.10		¹ National Energy Technology Laboratory / DOE,	



Symposium	F4	н	H2
Room	3-21/M1	I -16/M1	Conference Room 2/M1
Session Title	Innovative amorphous biomaterials and bioactive metals	Coproducts and Their Applications	Developments in Steel Industry
Chairperson	David MARCHAT	Orlando Rios	Inoue Ryo, Zhi Sun
	HIGHLIGHT CHITOSAN HYDROGEL BIOREACTORS FOR TISSUE ENGINEERING	KEYNOTE/INVITED IMPACT OF SUBSTITUTING NICKEL AND COBALT IN LITHIUM MIXED TRANSITION METAL OXIDES FOR LITHIUM BATTERIES	KEYNOTE/INVITED RESEARCH AND DEVELOPMENTS FOR CO, EMISSION REDUCTION FROM THE IRON AND STEEL INDUSTRIES IN SOUTH KOREA: AN OVERVIEW
17.30	Pr Laurent David¹ ¹Université Claude Bernard Lyon¹, Lab. Ingéniérie des Matériaux Polymères CNRS UMR 5223, Villeurbanne, France	Prof. Dr. Hans Juergen Seifert', Maryam Masoumi [†] , Dr. Damian Cupid [†] , Dr. Carlos Ziebert [†]	Professor Joonho Lee ¹
17.50	A FRUGAL SYNTHESIS METHOD TO DEVELOP TOUGH AND STRETCHABLE HYDROGELS MSc Laura Zorzetto ¹ , MSc Daniela P. Pacheco ² , Dr. Paola Petrini ² *Department of Aerospace and Mechanical Engineering, Mechanics of Biological and Bio-inspired Materials Research Unit, University of Liege. Liege. Belgium, *Department of Chemistry, Materials and Chemical Engineering, Politecnico di Milano, Milan, Italy	[†] Karlsruhe Institute of Technology. Eggenstein-Leopoldshafen, Germany	[†] Korea University
	STUDY ON THE CORROSION, MECHANICAL AND CELL VIABILITY BEHAVIOUR OF A NEWLY DEVELOPED POROUS Fe-Mn-Si-Pd ALLOYS	HIGHLIGHT ELEVATED TEMPERATURE MATERIAL PROPERTIES IN THE AL-Ce ALLOY SYSTEM	CONDENSATION OF RARE EARTH ELEMENTS IN STEELMAKING SLAG
18.10	Jordina Fornell', Yu Ping Feng', Nerea Gaztelumendi', Huiyan Zhang' ³ , Pau Solsona', Dolors Baró', Santiago Suriñach', Elena Ibáñez², Lleonard Barrios², Eva Pellicer', Carme Nogués², Jordi Sort' ^{1,4}	VP Engineering/R&D Dave Weiss', Orlando Rios², Zachary Sims², Scott McCall³	Ryo Inoue ¹ , Nao Kasai ² , Yasushi Takasaki ¹ , Atsushi Shibayama ¹
	'Departament de Fisica, Universitat Autònoma de Barcelona, Bel- laterra, Spain, 'Departament de Biologia Cel·lular, Fisiologia i Im- munologia, Universitat Autònoma de Barcelona, Bellaterra, Spain, 'School of Materials Science and Engineering, Anhui University of Technology, Ma'anshan, China, 'ICREA, Pg. Lluis Companys 23, E-08010 Barcelona, Spain, Barcelona, Spain	¹ Eck Industries, Inc., Manitowoc, USA, ² Oak Ridge National Laboratory, Oak Ridge, USA, ³ Lawrence Livermore National Laboratory, Livermore, USA	[†] Akita University, Akita, Japan, ² Kobe Steel, Kobe, Japan
	NICKEL-FREE SUPERELASTIC TITANIUM ALLOYS IN MEDICINE : FROM THE ALLOY DESIGN TO THE REALIZATION OF MEDICAL DEVICE PROTOTYPES	HIGHLIGHT ADDRESSING FUNDAMENTAL CHALLENGES IN LITHIUM ION BATTERIES AND BEYOND	SELECTIVE LEACHING OF PHOSPHORUS FROM STEELMAKING SLAG BY CITRIC ACID
18.30	Prof Thierry Gloriant ¹ , Dr Doina-Margareta Gordin ¹ , Dr Philippe Castany ¹ , Dr Lorène Héraud ¹ , Philippe Marx ²	Craig Bridges ¹	Mr. Takayuki Iwama ¹² , <u>Dr. Xu Gao</u> ', Mr. Chuan-ming Du', Dr. Sun-joong Kim ³ , Dr. Shigeru Ueda', Dr. Shin-ya Kitamura'
	'INSA Rennes, UMR CNRS 6226 ISCR, Rennes, France, ² AMF Company, Lury-sur-Arnon, France	¹Chemical sciences division, ORNL, Oak Ridge, United States	Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Sendat, Japan, "Nippon Steel & Sumitomo Metal Corporation, Japan, "Dept. of Materials Science and Engineering, College of Engineering, Chosun University, Gwangju, Korea
	EFFECT OF THE IMMERSION IN OMEM SOLUTION ON THIN MO WIRES FOR BIODEGRADABLE APPLICATIONS	HIGHLIGHT DEVELOPMENT AND APPLICATION OF A MATERIALS DESIGN SIMULATOR TO AL-Ce BASED ALLOYS	EFFECTS OF MINERALOGICAL PHASES IN STEELMAKING SLAG ON ALKALI ELUTION
18.50	Karel Tesar ¹ , Aleš Jäger ² , Karel Balík ³	<u>Aurelien Perron</u> ¹ , Vincenzo Lordi ¹ , Orlando Rios ² , Davis Weiss ³ , Patrice E.A. Turchi ¹	Mr. Zuoqiao Zhu¹, Dr. Xu Gao², Dr. Shigeru Ueda², Prof. Shin-ya Kitamura²
	Czech Technical University In Prague, Faculty Of Nuclear Sciences And Physical Engineering, Prague, Czech Republic, ¹ institute of Physics of the Czech Academy of Sciences, Prague, Czech Republic ² Institute of Rock Structure and Mechanics of the Czech Academy of Sciences, Prague, Czech Republic	l'Lawrence Livermore National Laboratory, Livermore, USA, ² Oak Ridge National Laboratory, Oak Ridge, USA, ² Eck Industries, Manitowoc, USA	Graduate School of Engineering. Tohoku University, Sendai, Japan. ² Institute of Multidisciplinary Research for Advanced Materials. Tohoku University. Sendai, Japan
		HIGHLIGHT LIQUID CRYSTALLINE EPOXY NETWORKS WITH DYNAMIC COVALENT BONDS AND TUNABLE SHAPE MEMORY PROPERTIES	EFFECT OF BASICITY AND OXYGEN PARTIAL PRESSURE ON THE MINERALOGY AND MICROSTRUCTURE OF SOLIDIFIED BOF SLAG
19.10		<u>Dr. Michael Kessler</u> ¹ , Dr. Yuzhan Li ¹	Mr. Chunwei Liu¹, Dr. Shuigen Huang¹, Dr. Lieven Pandelaers¹, Prof. Bart Blanpain¹, Dr. Muxing Guo¹
		¹ Washington State University. Pullman, United States	[†] Dept. of Meterials Engineering, KU Lueven, Kasteelpark Arenberg 44 – box 2450, 3001 Heverlee, Belgium
		USE OF SMALL-ANGLE NEUTRON SCATTERING TO CHARACTERIZE MODEL STEELS FOR NUCLEAR APPLICATIONS	
19.30		Dr. Kenneth C. Littrell ¹ , Dr. Kevin G. Field ¹ , Dr. Samuel A. Briggs ² , Dr. Phillip D. Edmondson ¹ , Dr. Yukinori Yamamoto ¹ , Dr. Charles R. Daily ¹ , Professor Kumar Sridharan ²	
		¹ Oak Ridge National Laboratory, Oak Ridge, United States, ² University of Wisconsin, Madison, United States	
	1	1	



Symposium	A3	A5	A8	B1
Room	I-11/M1	MOYSA Hall/M2	I-08/M1	Conference Room 3/M1
Session Title	Nanostructured polymers IV	Nanoparticle Synthesis and applications II	Design of new properties	Advanced High Strength Steels I
Chairperson	Jannick Duchet-Rumeau	Maryna Bodnarchuk	Massimiliano Stengel	Sébastien Allain
	MECHANOCHROMIC EFFECT OF EPOXY VITRIMER COMPOSITES CONTAINING AROMATIC DISULPHIDE CROSSLINKS	HIGHLIGHT COBALT NANOWIRE BASED MODEL CATALYSTS FOR FISCHER TROPSCH SYNTHESIS	KEYNOTE/INVITED NOVEL FUNCTIONALITIES IN ATOMICALLY CONTROLLED OXIDE HETEROSTRUCTURES BY PULSED LASER DEPOSITION	KEYNOTE/INVITED MICROSTRUCTURE AND MECHANICAL PROPERTIES OF TRANSFORMATION-INDUCED PLASTICITY STEEL PRODUCED BY LABORATORY SIMULATED STRIP CASTING
11.00	Alaitz Ruiz De Luzuriaga¹, Nerea Markaide¹, Alaitz Rekondo¹, Hans-Jürgen Grande¹, Fernando Ruiperéz², José Marí Asua², Jon Mattin Matxain²	<u>Dr Katerina Soulantica</u> ¹, Dr Justine Harmel¹², Adrien Berlief², Laurent Peres¹, Dr Sylvie Maury³, Dr Antoine Fécant³, Dr Bruno Chaudret¹, Prof Philippe Serp²		
	¹Ik4-cidetec, San Sebastián, Spain, ²Polymat, San Sebastián, Spain	¹ LPCNO, Université de Toulouse, CNRS, INSA, UPS, Toulouse, France, ² LCC, CNRS-UPR 8241, ENSIACET, Université de Toulouse, Toulouse, France, ³ IFP Energies Nouvelles, Solaize, France	Guus Rijnders¹	Professor Elena Pereloma ¹ , Mr Zhiping Xiong ¹ , Dr Andrii Kostryzhev ¹ , Dr Ross Marceau ² , Dr Ahmed Saleh ¹ , Dr Adam Taylor ²
	Fe304/EP0XY NANOCOMPOSITES: MANUFACTURING, CHARACTERIZATION AND FUNCTIONALITY	PLATINUM NANOPARTICLES TO VERY EFFICIENTLY CATALYSE ALKENE HYDROSILYLATION		
11.20	Mrs Aikaterini Sanida¹, Mr Sotirios Stavropoulos¹, Dr. Thanassis Speliotis², Prof. Georgios Psarras¹	Dr Thomas Galeandro-Diamant ^{1,2} , Dr Marie-Line Zanota', Dr Reine Sayah', Dr Laurent Veyre ² , Dr Sébastien Marrot ³ , Dr Valérie Meille ¹ , Dr Chloé Thieuleux ²	¹ University of Twente, MESA + Institute for Nanotechnology, Enschede, the Netherlands	¹ University of Wollongong, Wollongong, Australia, ² Deakin University, Geelong, Australia
	¹ Smart Materials & Nanodielectrics Laboratory, Department of Materials Science, School of Natural Sciences, University of Patras, Patras, Greece, ² Institute of Nanoscience and Nanotechnology, NCSR "Demokri- tos", Althens, Aghia Paraskevi, Greece	¹ LGPC-CNRS University of Lyon, Villeurbanne, France, ² LC2P2-CNRS University of Lyon, Villeurbanne, France, ³ Bluestar Silicones France, St Fons, France		
	A NEW APPROACH TO THE PROTECTION OF STEEL FOR AEROSPACE APPLICATIONS	GREEN SYNTHESIS OF CUPROUS OXIDE NANOPARTICLES WITH ULTRASOUND ASSISTANCE	HIGHLIGHT THE ORIGIN OF UNIAXIAL NEGATIVE THERMAL EXPANSION IN LAYERED PEROVSKITES	STRAIN-INDUCED TRANSFORMATION IN LOW ALLOY TRIP STEELS: CHARACTERIZATION BY MAGNETIC FORCE MICROSCOPY
11.40	Pierre Loison¹², Loic Exbrayat¹, Pr Juan Creus¹, Pr Sebastien Touzain¹, Bruno Rameau², Elisa Campazzi³	Ing. Pietrogiovanni Cerchier ¹ , prof. Manuele Dabalà ¹ , Katya Brunelli ¹	Dr Arash Mostofi ¹ , Mr Chris Ablitt ¹ , Ms Sarah Crad- dock ⁴ , Dr Mark Senn ³⁴ , Dr Nicholas Bristowe ¹²	Professor Greg Haidemenopoulos¹, Professor George Constantinides², Illias Bellas³, Dr Daniel Krizan⁴, <u>Dr Helen Kamoutsi</u> ³
	¹ Laboratoire des Sciences pour l'Ingénieur (LaSIE), La Rochelle, France, ² Airbus Safran Launchers, Saint- Médard-En-Jalles, France, ³ Airbus Group Innovation, Suresnes, France	¹ University Of Padova, Padova, Italy	¹Imperial College London.²University of Kent. ²University of Warwick .⁴University of Oxford	¹ Khalifa University, Abu Dhabi, United Arab Emirates ² Cyprus University of Technology, Limassol, Cyprus ³ University of Thessaly, Volos, Greece ⁴ Voestalpine, Linz, Austria
	EPOXY THERMOSETS / FIBRILLAR CLAY SUSTAIN- ABLE NANOCOMPOSITES. AUTO-ORGANIZATION PHENOMENA AND COMPONENTS INTERACTIONS	FACILE SYNTHESIS AND CHARACTERIZATION OF Cu-BASED NANOSTRUCTURED MATERIALS	FABRICATION AND CHARACTERIZATION OF NANO- IMPRINTED ORGANIC-INORGANIC MULTIFERROIC NANOCOMPOSITES	A CRITICAL REVISIT TO THE WORK HARDENING AND STRAIN RATE SENSITIVITY OF CARBON-ALLOYED HIGH MANGANESE AUSTENITIC STEEL
12.00	Associate Professor Alice Mija ¹ , Dr Guillaume Falco ¹ , Dr Romain Castellani ² , Dr Nicolas Volle ³ , Sophie Pag- notta ⁴ , Dr Françoise Giulieri ³ , Dr Edith Peuvrel-Disdier ²	Miss Shaima AlYafei¹, Dr Georgia Basina*¹. Dr Vasileios Tzitzios¹, Dr. Balasubramanian Vaithilin- gam², Dr. Issam Ismail¹, Dr. Yasser Al Wahedi*¹	<u>Pedro Sá</u> ¹	Mr. Z.C. Luo ¹ , Dr. M.X. Huang ¹
	¹ University of Nice Sophia Antipolis. ICN. Nice. France, ² MINES ParisTech. CEMEF. UMR CNRS 7635, CS 10207. Sophia Antipolis, France. ³ SAS PIGM Azur, Nice. France, ⁴ Université Nice Sophia Antipolis; Centre Commun de Microscopie Appliquée, Nice, France	¹ Department of Chemical Engineering, The Petroleum Institute, P.O. Box 2533, UAE, Abu Dhabi, United Arab Emirates, ² Takreer Research Center, Abu Dhabi Oil Refining Company (TAKREER), P.O. Box: 3593, UAE, Abu Dhabi, United Arab Emirates	¹ Université Catholique De Louvain (UCL), Boltzmann A141, Croix Du Sud, 1 L7.04.02, Belgium	¹ Department of Mechanical Engineering, The University Of Hongkong, HongKong, China, ² Shenzhen Institute of Research and Innovation, The University Of Hongkong, Shenzhen, China
	OPTIMIZED PROCESSING CONDITIONS FOR HIGH-PERFORMANCE FERROELECTRIC P(VDF-Tif-E) FILMS	THE EFFECT OF STRAIN ON AG+ CATION SUBSTITUTION IN CdSe Nanocrystals	NEW ROUTES TO VERTICALLY ALIGNED MULTIFER- ROIC NANOCOMPOSITES: DESIGN AND MAGNETO- ELECTRIC COUPLING	STRAIN-HARDENING MECHANISMS IN HIGH-Mn TRIP/TWIP STEEL STUDIED BY IN-SITU SYNCHROTRON X-RAY DIFFRACTION
12.20	Nicoletta Spampinato ¹ , Dr. Jon Maiz ¹ , Dr. Mario Maglione ² , Prof. Georges Hadziioannou ¹ , Dr. Eleni Pavlopoulou ¹	Dr Urko Petralanda ¹ , Dr Luca De trizio ¹ , Prof Liberato Manna ¹ , Dr Sergey Artyukhin ¹	Mr. Sergey Basov ¹ . Doc. Catherine Elissalde ² , Prof. Luc Piraux ¹	M.Sc. Yan Ma ¹ , DrIng, Wenwen Song ¹ , UnivProf. DrIng, Wolfgang Bleck ¹
	"Laboratoire de Chimie des Polymères Organiques (LCPO – UMR5529), Université de Bordeaux/Bordeaux INP/CNRS, Pessac Cedex, France. ² Institut de Chimie de la Matière Condensée de Bordeaux (ICMCB – UPR9048), CNRS, Pessac Cedex, France	¹Italian Institute of Technology. Italy	^I BSMA-IMCN, Université catholique de Louvain, Louvain-la-Neuve, Belgium, ^I ICMCB-CNRS, Université de Bordeaux, Pessac, France	'Steel Institute. RWTH Aachen University. Aachen, Germany
	POLYMER COMPOSITES FOR THE PHOTOACTIVATED OPTOCHEMOSENSING OF TOXIC CONTAMINANTS		FROM SINGLE TO MULTILAYER COATINGS TO INCREASE THERMAL STABILITY AND OXIDATION RESISTANCE	THE TRIP EFFECT OF AUSTENITIC STEELS UNDER MULTIAXIAL LOADING
12.40	Despina Fragouli ¹ , Maria Erminia Genovese ¹ , Athanassia Athanassiou ¹		Dr. Konstantin Kuptsov [†] , Mehran Golizadeh [†] , Natalia Shvyndina [†] , Prof. Dmitry Shtansky [†]	Dr. Efthymios Polatidis ¹ , Mr. Wei-Neng Hsu ^{1,2} , Dr. Tobias Panzner ³ , Dr. Miroslav Smid ¹ , Prof. Prita Pant ⁴ , Prof. Helena Van Swygenhoven ^{1,2}
	'Istituto Italiano Di Tecnologia, Genova, Italy		¹ National Univercity Of Science And Technology "misis". Moscow, Russian Federation	Swiss light source, Paul Scherrer Institute, CH-5232 Villigen PSI, Switzerland, 'Neutrons and X-rays for Mechanics of Moterials, IMX, Ecole Polytechnique Federale de Lausanne, CH-1012 Laus- anne, Switzerland, 'Laboratory for Neutron Scattering, NUM, Paul Scherrer Institute, CH-522 Villigen PSI, Switzerland, 'Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai 400076, India

Symposium	B2	В3	B5	B10
Room	Aimilios Riadis Hall/M2	CR I Hall/M2	Conference Room 1/M1	Maurice Saltiel Hall II/M2
Session Title	Titanium	Advanced Characterization	Shaping and Sintering of Oxide based Ceramics	Fatigue & Fracture IV - Microstructural Aspects
Chairperson	Dallas Trinkle	M. Azeem	Sophia Tsipas	Martin Leitner
	KEYNOTE/INVITED INFLUENCE OF INSTABILITIES ON THE REFINED DISTRIBUTION OF THE ALPHA PHASE IN METASTABLE TITANIUM ALLOYS	IN SITU 3D INVESTIGATION OF DENDRITIC PATTERN FORMATION IN NI, Fe AND Co ALLOYS	FABRICATION OF CORDIERITE-MULLITE CERAMICS WITH HIERARCHICAL POROSITY INDUCED BY GAS FORMING AND CELLULOSE SPHERE TEMPLATES	A MICROSTRUCTURE DRIVEN MODELING APPROAC FOR THE PREDICTION OF FATIGUE PROPERTIES
11.00		<u>Dr Mohammed A Azeem</u> ¹² , Dr Robert C Atwood ¹²³ , Dr Nghia Vo ³ , Professor Peter D Lee ¹²	<u>Dr.sc.ing. Ruta Svinka</u> ¹ , Dr.sc.hab ing Visvaldis Svinka ¹ , Mg.sc. Martin Stumpf ² , Dr.ing. Tobias Fey ²	<u>Karl Gillner</u> ¹ , Prof. DrIng Sebastian Münstermann
	<u>Prof. Hamish Fraser</u> ¹	'School of Materials. The University of Manchester, Oxford Rd. Manchester M13 9PL. United Kingdom, 'Research Complex at Harwell. Harwell Campus, Oxfordshire 0X11 0FA. United Kingdom, 'Diamond Light Source Ltd., Harwell Science and Innovation Campus Didcot 0X11 0DE, United Kingdom	¹ Riga Technical University Institute of Silicate Materials, Riga, ² Friedrich-Alexander University Erlangen-Nuremberg Departament of Glass and Ceramic, Erlangen,	¹ Department Of Integrity Of Materials And Structures Of The Steel Insitute Of Rwth Aachen University, Aachen, Germany
		A COMPARISON OF METHODS FOR QUANTITATIVE ASSESSMENT OF TCP PHASE FORMATION IN NICKEL-BASE SUPERALLOYS	CERAMIC COMPOSITES VIA ADDITIVE MANUFACTURING	MICROMECHANICAL MODELING OF FATIGUE CRAC Initiation in Aluminum 2024
11.20	¹The Ohio State University, Columbus, United States	Alison Wilson ¹ , Katerina Christofidou ¹ , Alex Evans ² , Mark Hardy ³ , Howard Stone ¹	Ezra Feilden ¹ , Dr Claudio Ferraro ¹ , Dr Esther Garcia Tunon-Blanca ¹ , Dr Finn Giuliani ¹ , Dr Luc Vandeperre ¹ , Prof Eduardo Saiz ¹	<u>Dr. Hamad UI Hassan</u> ¹. Wenye Ye¹, Prof. Alexander Hartmaier¹
		Department of Materials Science and Metallurgy, University Of Cambridge, UK, ² Rolls-Royce Deutschland, ³ Rolls-Royce plc, Derby, UK	¹ Imperial College London, London, United Kingdom	Interdisciplinary Centre For Advanced Materials Simulation (ICAMS) at the Ruhr-Universität Bochum Germany, Bochum, Germany
	HIGHLIGHT USING METASTABILITY TO ENGINEER THE MICROSTRUCTURE OF A TI ALLOY PRODUCED BY SELECTIVE LASER MELTING	DEFORMATIONS OBSERVING AT HIGH TEMPERATURE USING DIGITAL IMAGE CORRELATION METHOD	THE INFLUENCE OF INITIAL FORM OF POWDER AND SINTERING CONDITIONS ON PROPERTIES OF THE CERAMIC, OBTAINED BY SPARK PLASMA SINTERING METHOD, ON AN EXAMPLE COMPOUNDS PrPO4 AND Zr02+0.25(MOL.%)SM(Yb)01.5	MICROSTRUCTURAL AND EDGE-QUALITY EFFECTS ON THE FATIGUE PERFORMANCE OF HIGH STRENGTH STEELS
11.40	Prof. Dr. Guillermo Requena ¹² , Dr. Pere Barriobero Vila ¹ , Dr. Joachim Gussone ¹ , Dr. Jan Haubrich ¹ , Dr. Stefanie Sandloebes ² , Dr. Julio Cesar Da Silva ³ , Dr. Peter Cloetens ³ , Dr. Norbert Schell ⁴	Yong Shang', Shusuo Li', YanLing Pei', HuiBin Xu', ShengKai Gong* ¹	Ekaterina Potanina ¹ , Dmitry Mikhailov ¹ , Albina Orlova ¹ , Aleksey Nokhrin ¹ , Maksim Boldin ¹ , Nikita Sakharov ¹ , Evgeny Lantsev ¹	Carlos Jiménez-peña¹, Constantinos Goulas³⁴, Prof. Barbara Rossi², Prof. Dimitri Debruyne¹
	¹ DLR Institute of Materials Research, Cologne, Germany, ² RWTH Auchen, Germany, ³ ESRF, Grenoble, France, ⁴ HZG, Geesthacht, Germany	'School of material science and engineering, Beihang University, NO.37, Xueyuan Road, Haidian District, Beijing, China, China	¹ Nizhny Novgorod State University, Nizhny Novgorod, Russia	KU Leuven, Department of Metallurgy and Materia Engineering, Leuven, Belgium, 'KU Leuven, Depart ment of Civil Engineering, Leuven, Belgium, 'Mater innovation institute (M2i), Delft, The Netherlands, 'U University of Technology, Department of Materials Science and Engineering, Delft, The Netherlands
	HIGHLIGHT INVESTIGATION OF COMPLEX TITANIUM BASED ALLOYS BY ELECTRON MICROSCOPY AND X-RAY DIFFRACTION	IN-SERVICE ENVIRONMENTAL DEGRADATION OF AN INCONEL 625 FORMULA 1 CAR EXHAUST	NATURAL BIOCERAMIC PRODUCTION AND CHAR- ACTERIZATION FROM FISH BONES OF EUROPEAN ANCHOVY (ENGRAULIS ENCRASICOLUS)	3D IMAGING OF WHITE ETCHING CRACKS (WECs) IN BEARING STEELS
	Florian Pyczak¹	Dr Stella Pedrazzini ¹ , Ms Hazel Gardner ² , Mr James Douglas ² , Dr Elena Kiseeva ³ , Dr Robert Escoube ³ , Ms Gabriella Chapman ² , Prof Didier De Lille ⁴ , Dr Paul Bagot ¹ , Dr Howard Stone ¹	Assist. Prof. Yesim Muge Sahin ^{1,2} , Ismık Deniz Ismık ² , Ms. Esra Altun ³ , Mr. Burak Ozbek ³ , Dr. Hasan Gokce ⁵ , Prof. Simeon Agathopoulos ⁵ , Mr. Mehmet Onur Aydogdu ⁷ , Prof. Faik Nuzhet Oktaró ³ , Assist. Prof. Oguzhan Gunduz ^{7,3}	Mr Matthew Curd¹. Dr Timothy Burnett¹, Dr Ali Gholinia¹. Prof Phil Withers¹
12.00	¹ Helmholtz-Zentrum Geesthacht, Geesthacht, Germany	Department of Materials Science and Metallurgy, University Of Cambridge, Cambridge, UK, Department of Materials, University of Oxford, Oxford, UX, Pepartment of Earth Sciences, University of Oxford, Oxford, UK, Good Fabrications Performance Exhausts, Aylesbury, UK, Nuclear Decommissioning Authority, Harwell, UK	Istanbul Arel University, Istanbul' Buyukcekmece / Tepekent, Tur- key, *IerleDTKAMPalymer Technologies and Composite Materials R&D Centels, Istanbul Buyukcekmece / Tepekent, Turkey, *Faculty of Technology, Marmara University /Advanced Nanomaterials Research Laboratory, Istanbul *Kadkioy Ziverhey, Turkey, *Istan- bul Technical University / Prof. Dr. Adnan Tekin Material Science and Production Technology Applied Research Center, Istanbul Maslak, Turkey, *University of Joannina / Department of Materials Science and Engineering, Januan, Greece, Marmara University /Department of Bioengineering/ Faculty of Engineering, Istanbul / Kadikoy / Ziverbey, Urikey, *Marmara University / Department of Metallurgy and Materials Engineering/ Faculty of Technology / Istanbul / Kadikoy / Ziverbey, Urikey, *Marmara University / Septimentals Engineering/ Faculty of Technology	¹ University of Manchester
	HIGHLIGHT HIGH THROUGHPUT INVESTIGATION OF SOLUTE EFFECTS IN BETA TI ALLOYS		CORRELATTION BETWEEN MICROSTRUCTURE AND MECHANICAL PROPERTIES OF BORON SUBOXIDE B60 CERAMICS; A TEM STUDY	IN SITU TEM INVESTIGATION OF HIGH-CYCLE FATIGUE AND FAILURE IN NANOCRYSTALLINE CUTHIN FILMS
12.20	Chuanyun Wang¹, Dr. Yuwen Cui¹, Dr. Maria Teresa Perez Prado¹		Prof. Hans-Joachim Kleebe ¹	Douglas Stauffer ² , Daniel Bufford ¹ , William Mook ³ , Brad Boyce ⁴ , Khalid Hattar ¹
	'Imdea Materials Institute, Spain		Technische Universität Darmstadt, Darmstadt, Germany	Radiation-Solid Interactions Sandia National Labo tories ,Albuquerque, United States, 'Radiation-Solid teractions Sandia National Laboratories, Albuquerqu USA, 'Center for Integrated Nanotechnologies Sand National Laboratories United States, Albuquerque, USA, 'Materials Mechanics and Tribology Sandia National Laboratories, Albuquerque, USA
			INFLUENCE OF GRAIN SIZE ON THE MECHANICAL PROPERTIES AND SPUTTERING RESISTANCE OF h-BN CERAMICS	OBSERVATIONS OF CRACK TIP STRAIN AND DISPLACEMENT FIELDS DURING FATIGUE UNDER VARIABLE MODE-MIXITY
12.40			Xiaoming Duan ¹ , Dechang Jia ¹ , Zheng Wang ¹ , Zhuo Tian ¹ , Zhihua Yang ¹ , Yu Zhou ¹	Professor Michael Vormwald ¹ , Professor José L.I Freire ² , Mr. G. L.G. Gonzáles ² , Mr. J.G. Diaz ²
			¹ Harbin Institute Of Technology, China	'Technische Universität Darmstadt, Darmstadt, Gen ny, ² Pontifical Catholic University of Rio de Janeiro, Rio de Janeiro, Brasil



Symposium	B11	C1	C2	C6
Room	Maurice Saltiel Hall III/M2	Friends of Music Hall/M1	Conference Room 4/M1	I-15/M1
Session Title	Advanced In-Situ Measurement Methods	Coatings and thin films 4/6 -Wear coatings	Laser surface texturing and deposition	Welding 3
Chairperson	F. Walther	N. Markocsan, E. Aperathitis	Gert-willem Romer	Ivan Kaban
	KEYNOTE/INVITED RESIDUAL STRESSES IN Au-Cu-Ag ALLOYS: A NEUTRON DIFFRACTION EXPERIMENT	HIGHLIGHT ELABORATION OF WEAR RESISTANT CARBIDE-BASE SURFACE LAYERS VIA CONCENTRATED SOLAR POWER	HIGHLIGHT TAILORING FRICTION OF LUBRICATED SURFACES BY FEMTOSECOND LASER TEXTURING	IN-SITU POST WELD HEAT TREATMENT OF HIGH STRENGTH LOW ALLOY STEEL DURING ELECTRON BEAM WELDING
11.00		Dr. Pandora Psyllaki ¹ , Ph.D. canditate Athanasios Mourlas ³ , Dr. George Vourlias ³ , Dr. Eleni Pavlidou ² , Jose Rodriguez ³ , Dr. Inmaculada Cañadas ³	Antonio Ancona ^{1,2} , Gagandeep Singh Joshi ^{1,4} , Carmine Putignano ^{1,3} , Caterina Gaudiuso ^{1,4} , Annalisa Volpe ^{1,4} , Pietro Mario Lugarà ^{1,4} , Giuseppe Carbone ^{1,3}	Ahmed Hussein ¹ , Christian Schneider ¹ , Dr. Wolfgang Ernst ⁴ , Prof. Norbert Enzinger ¹ , Prof. Christof Sommitsch ¹
	Ms. Marina Garcia Gonzalez ¹² , Dr. Steven Van Petegem ¹ , Prof. Dr. Helena Van Swygenhoven ¹²	Piraeus University of Applied Sciences, Department of Mechanical Engineering, Egaleo, Greece, 'Arristotle University of Thessaloniki (AUTh), Physics Department, Thessaloniki, Greece, 'Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT), Plataforma Solar de Almeria, Tabernas Almeria, Spain	CNR- Institute for Photonics and Nanotechnol- ogies Bari, Physics Dept Campus Universitario - via Orabona ⁴ - Bari, Italy, ² Dept. of Engineering Science, University West, Trollhättan, Sweden, ³ Department of Mechanics, Mathematics and Man- agement, Politecnico di Bari, Bari, Italy, ⁴ Università degli Studi di Bari, Dept. Physics, Bari, Italy	"Graz University of Technology, Institute of Materials Science, Joining and Forming, Graz, Austria, "voestal- pine Stahl GmbH, Linz, Austria
		STRESS REDUCTION IN HARD TI(ALV)N FILMS RESISTANT TO CRACKING BY ENERGY DELIVERED DURING THEIR GROWTH	LASER POWDER CLADDING OF WEAR- AND CORROSION-RESISTANT MATERIALS	MICROSTRUCTURAL AND MECHANICAL CHARACTER- IZATION OF AA2024 ALUMINIUM ALLOY — PURE COPPER LINEAR FRICTION WELDS
11.20	¹ Paul Scherrer Institute, Villigen, Switzerland, ² École Polytechnique Fédérale de Lausanne, Laussane, Switzerland	<u>Martin Jaroš</u> '	Ph.D. student Rudolf Korsmik ¹ . D.Sc., Prof. Gleb Turichin ² , Ph.D. Olga Klimova- Korsmik ¹ , M.Sc. Konstantin Babkin ¹	Dr. Marie-Noelle Avettand-Fenoel ¹ , Dr. Guillaume Racineux ² , Dr. Roland Taillard ¹
		¹ University Of West Bohemia, Pilsen, Czech Republic	Peter the Great Saint-Petersburg Polytechnic University, Saint-petersburg, Russian Federation, ² Saint-Petersburg State Marine Technical University, Saint-Petersburg, Russion Federation	'Unité Matériaux El Transformations (UMET), UMR CNRS 8207. Université Lille', Villeneuve d'Asca, France. 'Institut de Recherche en Génie Civil et Mé- canique. UMR CNRS 6183. Ecale Centrale de Nantes, Nantes, France
	TIME RESOLVED X-RAY DIFFRACTION FOR STRESS MEASUREMENTS DURING FATIGUE TESTS AT 20kHZ	NANO-SIZED CARBON BLACK PARTICLE REIN- FORCED COMPOSITE COATINGS: MECHANICAL BEHAVIOR-STRUCTURE RELATION	LASER SURFACE STRUCTURING TO IMPROVE TRIBOLOGICAL SYSTEMS AT MIXED LUBRICATION	ENABLING TZM SHEET WELDS BY PROPER FILLER METAL ADDITION
11.40	Dr Nicolas Ranc ¹ , <u>Dr Olivier Castelnau</u> ¹ , Maxime Pelerin ¹ , Vincent Michel ¹ , Pr. Veronique Favier ¹ , Dr Dominique Thiaudiere ² , Dr Cristian Mocuta ²	<u>Dr. Orkut Sancakoglu</u> l, Prof. Dr. Tevfik Aksoyl	Tobias Stark¹	Johann Sebastian Kramer ¹ , <u>Markus Stuetz</u> ¹ , Matthias Ruettinger ² , Markus Koegl ² , Nikolaus Reheis ² , Norbert Enzinger, Heinrich Kestler ²
	¹ Laboratory PIMM (Arts & Metiers ParisTech / CNRS), Paris, France, ² Synchrotron Soleil, Gif-sur-Yvette, France	¹ Dokuz Eylul University, İzmir, Turkey	'Robert Bosch GmbH, Renningen, Germany	'Institute of Materials Science, Jaining And Forming, Graz University of Technology, Graz, Austria, 'Plansee SE, Reutte, Austria
	CHARACTERIZATION OF LOCAL DAMAGE MECHANISMS BY IN SITU SEM METHODS AND MATHEMATICAL IMAGE ANALYSIS	STRUCTURE, MECHANICAL AND TRIBOLOGICAL PROPERTIES OF HVOF SPRAYED (WC-Co+AI) COMPOSITE COATING ON DUCTILE CAST IRON	LASER DIRECT WRITING OF AG NANOWIRES FOR FLEXIBLE ELECTRONICS	INFLUENCE OF MANDREL'S SURFACE ON JOINTS PRODUCED BY EMPT
12.00	Prof. Dring. Tilmann Beck ¹ . DiplIng. Sebastian Schuff ¹ .JunProf. DrIng. Frank Balle ¹ , M. Sc. Jan Henrik Fitschen ² , Prof. Dr. Gabriele Steidl ²	Phd.Dsc.eng Marzanna Ksiazek¹², Ms.Eng. Lukasz Boron², Prof. Marta Radecka¹, Prof. Maria Richert¹, Ms.Eng Adam Tchorz²	<u>Dr. Filimon Zacharatos</u> ¹ , Mr Ioannis Theodorakos ¹ , Mr. Agamemnon Kalaitzis ¹ , Prof. Ioanna Zergioti ¹	PhD Inês Oliveira ¹ , Professor Ana Reis ²
	¹ Institute Of Materials Science And Engineering (WKK), TU Kaiserslautern, Kaiserslautern, Germany, ² Department of Mathematics, TU Kaiserslautern, Germany	¹ AGH University of Science and Technology, Cracow, Poland, ² Foundry Research Institute, Cracow, Poland	'National Technical University Of Athens, School of Applied Mathematics and Physical Sciences - Department of Physics, Athens, Greece	'INEGI - Institute of Science and Innovation in Mechanical and Industrial Engineering, Campus da Feup Rua Dr. Roberto Frias, 400, Portugal, "Faculty of Engineering, University of Porto, Rua Dr. Roberto Frias, s/n, Portgual
	MICROSTRUCTURE AND MAGNETIC DOMAIN STRUCTURE OF GRAIN-ORIENTED Fes-3%SI STEEL AND ARMCO IRON IN UNDEFORMED STATE AND AFTER ELASTIC-PLASTIC DEFORMATION	ZIRCONIA FILMS: MICROSTRUCTURES AND MECHANICAL STRENGTH	NANOSECOND LASER SURFACE TREATMENT OF STEELS, DIFFERENT APPLICATIONS IN THE FIELDS OF CORROSION, NUCLEAR INDUSTRY AND DECONTAMINATION	EFFECT OF BORON CONTENT ON LIQUATION CRACKING IN AUSTENITIC STAINLESS STEELS FOR WELDED COMPONENTS OF PRESSURIZED WATER REACTORS
12.20	M.sc. Shayan Deldar ⁱ , DrIng. Marek Smaga ⁱ , Prof. DrIng. Tilmann Beck ¹	Josiane Christelle Djuidje Dzumgam ¹ , Pr Clotilde BERDIN ¹ , Dr Michel ANDRIEUX ¹ , Patrick RIBOT ¹	Wilfried Pacquentin ¹ , Luisa Carvalho ¹ , Michel Tabarant ¹ , Alexandre Semerok ¹ , Hicham Maskrot ¹	PhD Student Giai TRAN VAN ¹² , Associate Professor Denis CARRON ¹ , PhD Vincent ROBIN ² , Professor Philippe LE MASSON ¹ , PhD Antoine ANDRIEU ²
	¹ TU Kaiserslautern, Institute of materials science and engineering. Kaiserslautern, Germany	¹ICMMO, CNRS UMR 8182, Université Paris SUD - Paris Saclay, Orsay, France	Den — Service d'Etudes Analytiques et de Réactivité des Surfaces (SEARS), CEA, Université Paris-Saclay, F-91191, Gif sur Yvette, France, France	'University Of Southern-Brittany, Lorient, France, ² EDF-R&D, Chatou, France
	SEM/EBSD TENSILE TESTING OF HYDRO- GEN-CHARGED AUSTENITIC STEEL WITH ULTRA-FINE GRAINS	HOT CORROSION BEHAVIOR OF HVOF CONICTALY(HF) COATING ON NI-BASED SUPERALLOYS		HYDROGEN SOLUBILITY IN WELDING FLUXES FOR ADVANCED HIGH STRENGTH STEELS
12.40	<u>Arnaud Macadre</u> ¹ , Toshihiro Tsuchiyama ^{1,2} , Setsuo Takaki ^{1,2}	<u>Pimin Zhang</u> ¹, Dr Ru Lin Peng¹, Dr Xin-Hai Li². Dr Sten Johansson¹		Ph.D Sung Hoon Chung ¹ . Professor Il Sohn ¹
	¹ International Institute For Carbon-neutral Energy Research, Japan, ² Kyushu University.	Department of Management and Engineering, Linköping University, Linköping, Sweden, Siemens Industrial Turbomachinery AB, Finspång, Sweden		¹ Yonsei University, Seoul. Korea



Symposium	D1	D2	D4	D9
Room	Artist Cafe/M1	Museum Hall /M2	Library Hall/M2	Maurice Saltiel Hall I/M2
Session Title	NANOSTRUCTURES	Tomography, Imaging & Diffraction	Micro/nano-mechanics of interfaces	Structural materials for GenIV prototypes
Chairperson	Artur Braun & Biao Cai	Thomas Walther	Gilles Patriarche & Christophe Pinna	K. Nilsson
	KEYNOTE/INVITED IN-SITU SMALL ANGLE X-RAY SCATTERING CHARACTERIZATION OF NANOPOROUS MATERIALS FOR ACTUATION AND ENERGY APPLICATIONS	KEYNOTE/INVITED IMAGING SOFT MATTER IN 2D AND IN 3D	HIGHLIGHT LOCALLY MEASURING THE ADHESION OF Inp MEMBRANES DIRECTLY BONDED ON SILICON	KEYNOTE/INVITED COMPATIBILITY OF STEEL WITH HEAVY LIQUID METALS-CORROSION MECHANISM AND ADVANCED MITIGATION STRATEGIES BASED ON MICROSTRUC- TURAL CHARACTERISATION EXAMINATIONS
11.00			Dr Gilles Patriarche ¹ , Dr Konstantinos Pantzas ¹ , Dr Eric Le Bourhis ² , Gregoire Beaudoin ¹ , Dr Anne Talneau ¹	
	Prof. Dr. Oskar Paris¹	Prof Gustaaf Van Tendeloo 1.2, Prof Sara Bals¹	'Centre de Nanosciences et de Nanotechnologies (C2N), Marcoussis, France ² Institut P'- CNRS / Université de Poitiers, Poitiers, France	Dr. Alfons Weisenburger ¹
	¹ Montanuniversitaet Leoben, Leoben, Austria	¹ EMAT, University of Antwerp, Antwerp, Belgium, ² Wuhan University of Technology, Wuhan, China	INDENTATION AND SCRATCH INDUCED DELAMINA- TION OF SILICON NITRIDE FILMS WITH STRESSED OVERLAYERS FOR INTERFACIAL ADHESION MEASUREMENTS	'Karlsruhe Institute Of Technology. Eggensten-Leopoldshafen, Germany
11.20			Andreas Kleinbichler ^{1,2} . Priv. Doz. Dr. Megan Cordill ² , Dr Johannes Zechner ¹	
			''Kompetenzzentrum Automobil- Und Industrieelek- tronik Gmbh, Villach, Austria, 'Erich Schmid Institute for Material Science, Austrian Academy of Sciences and Dept. Material Physics, Leoben, Austria	
	CUBIC? NO, THANKS!	HOW DOES TOMOGRAPHY IN THE MICRO, NANO AND ATOMIC SCALE HELP TO UNDERSTAND 3D MICRO- STRUCTURE FORMATION AND PROPERTIES?	A MULTISCALE ANALYSIS OF INTERFACES IN 3D PRINTED COMPOSITES	OXIDATION OF STEELS IN STAGNANT Pb
11.40	Dr Antonio Cervellino*, Federica Bertolotti², 8, Dmitry N. Dirin³4*, Maria Ibāñez³,⁴, Frank Krumeich³, Ruggero Frison³, 6, Oleksandr Voznyy7, Edward H. Sargent7, Maksym V. Kovalenko³4, Antonella Guagliardi³, Norberto Masciocchi²	Prof.DrIng. Frank Mücklich ¹ , Michael Engstler ¹ , Jeni Barrirero ¹ , Anastasia Kruglova ¹	Ms. Laura Zorzetto ¹ , Assistant Professor Francesco Briatico Vangosa ² , Professor Marta Rink ² , Assistant Professor Luca Andena ² , <u>Assistant Professor Davide</u> <u>Ruffoni</u> ¹	Dr. Massimo Emilio Angiolini ¹ , Dr. Pietro Agostini ¹ , Dr. Serena Bassini ¹ , Dr. Fabio Fabbri ¹ , Dr. Elena Mac- erata ² , Dr. Stefano Matteo Cervino ² , Dr. Mario Mariani ²
	Paul Scherrer Institut, Villigen, Switzerland, *Università dell'Insubria & To Sca. Lab, Como, Italy, *ETH Zurich, Zurich, Switzerland, *EMPA, Düben- dorf, Switzerland, *University of Zurich, Zurich, Switzerland, *CNR-IC & To Sca. Lab, Como, Italy, *University of Toronto, Cironoto, Canada, *Aarhus University, Aarhus, Denmark	'Saarland University, Saarbrücken, Germany	¹ University of Liège, Liège, Belgium, ² Politecnico di Milano, Milan, Italy	'Department for Fusian and Technologies for Nuclear Safety and Security, ENEA www.enea.it, Rome, 'Nuclear Engineering Division, Department of Energy, Politecnico di Milano, Milano,
	X-RAY NANO-DIFFRACTION ANALYSIS OF 3D STRAIN STATE IN CORE-SHELL SEMICONDUCTOR NANOWIRES	QUANTITATIVE ANALYSIS OF NANOPARTICLE ASSEMBLIES IN 3D	MECHANICAL BEHAVIOR OF FUNCTIONAL THIN FILMS UNDER CONTROLLED BIAXIAL LOADING	SELECTION AND QUALIFICATION OF CANDIDATE MATERIALS FOR REACTOR SYSTEMS WITH HEAVY LIQUID METAL COOLANTS
12.00	Prof. Dr. Ultrich Pietsch ¹ . Ali AlHassan ¹ . Arman Davtyan ¹ . Dr. Ryan Lewis ² . Hanno Küppers ² . Dr. Lutz Geelhaar ²	Dr. Thomas Attantzis', Mr. Daniele Zanaga', Dr. Ana Sánchez-Iglesias², Dr. Marek Grzelczak³³, Prof. Luis M. Liz-Marzán²³, Prof. Gustaaf Van Tendeloo', Prof. Sara Bals¹	Nicolas POUVREAU ¹ , Dr Dominique THIAUDIERE ¹ , Eric LE BOURHIS ² , Philippe GOUDEAU ³ , Pierre Olivier RENAULT ³ , Raphaelle GUILLOU ³ , Pierre GODARD ³ , Cristian MOCUTA ¹	Erich Stergar ¹ , P. Marmy ¹ , X. Gong ¹ , S. Gavrilov ¹
	¹ Department of Physics, University of Siegen, Siegen, Germany, ² Paul-Drude-Institut für Festkörperelektron- ik, Berlin, Germany	¹ EMAT, University of Antwerp, Antwerp, Belgium, ² Bionanoplasmonics Laboratory, CIC biomaGUNE, San Sebastián, Spain, ³ Ikerbasque, Basque Foun- dation for Science, Bilbao, Spain	'Synchrotron Soleil. France, ² Université de Poitiers, FRANCE, ² CEA Saclay, FRANCE	'SCK*CEN, Mol. Belgium
	LABORATORY PRE-SCREENING OF PROCESSES AT THE NANOSCALE FOR DEDICATED SYNCHROTRON IN-SITU SAXS/GISAXS EXPERIMENTS	ACCURATE STRUCTURE REFINEMENT OF EPITAXIAL THIN FILMS USING 3D ELECTRON DIFFRACTION DATA	FE SIMULATION OF INTERFACIAL DELAMINA- TION BETWEEN SIO, THIN FILM AND POLYMERIC SUBSTRATE	RELIABILITY UNDER MONOTONIC AND CYCLIC LOADING OF THE T91 STEEL DEFORMED IN LEAD BISMUTH EUTECTIC: EFFECT OF OXYGEN CONCEN- TRATION
12.20	Dr. Matej Jergel ¹ , Dr. Karol Vegso ² , Dr. Martin Hodas ³ , Mgr. Peter Nádaždy ¹ , Dr. Peter Šiffalovič ¹ , Dr. Vojtech Nádaždy ¹ , Dr. Eva Majková ¹	PhD Gwladys Steciuk ¹ , Dr. Philippe Boullay ² , PHD Lukas Palatinus ¹ , MC Adrian David ² , PHD Helene Rotella ² , CR Olivier Copie ² , DR Wilfrid Prellier ²	Caroline Ho ^{1,2} , Olivier Dalverny ¹ , Amèvi Tongne ¹ , Joel Alexis ¹ , Anita Dehoux ² , Sébastien Chatel ² , Loic Lacroix ¹ , Bruce Faure ²	Dr Ingrid Proriol Serre ¹ , Carta Carté ¹ , Pr Jean-Bernard Vogt ¹
	"Institute of Physics, Slovak Academy of Sciences, Bratislava, Slovakia," 2 Japan Synchrotron Radia- tion Research Institute, Hyogo, Japan," 3 Institute of Applied Physics, University of Tubingen, Tubingen, Germany	'Institute Of Physics Of The Czech Academy Of Sciences, Prague 6, Czech Republic, ² CRISMAT Laboratory UMR6508, Caen, FRANCE	¹ Laboratoire Génie de Production ENIT-INP, Tarbes, France, ² Essilor International R&D, Créteil, France	'Unité Matériaux Et Transformations - UMR Université Lille 'ICNRS/INRA/ENSCL, Lille University - 59655 Villeneuve d'Ascq ,France
	MONITORING TIO, CRYSTALLIZATION KINETICS USING SYNCHROTRON RADIATION DIFFRACTION	ORIGIN OF THE MODULATED SUPERSTRUCTURE OF THE Ce $_{10}W_{2}O_{21}$ Lanthanide Tungstate by electron crystallography	INDICATING COATINGS FOR CFRP IN AERONAUTIC	IRRADIATION EFFECTS ON COMPATIBILITY OF STRUCTURAL MATERIALS WITH LEAD-BISMUTH EUTECTIC
12.40	Dr Hani Albetran ¹² , Professor Brian O'Connor ¹ , Professor It-Meng (Jim) Low ¹	MSc Loïc Patout ¹ , PhD Thomas Neisius ² , PhD Andrea P. C. Campos ³ , Christian Dominici ² , PhD Claude Alfonso ¹ , PhD Ahmed Charaï ¹	Prof. Eric Le Bourhis ¹ , Dr. Sophie Senani ² , Dr. Laurence Rozes ³ , Mr. Quentin Morelle ³ , Dr. Manuel Gaudon ⁴ , Dr. Etienne Duguet ⁴ , Dr. Silvere Barut ² , Dr. Stéphane Guinard ² , Dr. Fabienne Touchard ⁴ , Dr. Jean-François Letard ⁵ , Dr. Pierre-Jean Lathierre6	Dr. Yong Dai ¹
	'Curtin University, Perth, Australia, ² Imam Abdulrah- man Alfaisal University, Dammam, Saudi Arabia	¹Im2np-cnrs, Aix-Marseille Université, Faculté des Sciences, Campus de Saint-Jérôme, F-13397 Marseille, ²CP2M, Aix-Marseille Université, Faculté des Sciences, Campus de Saint-Jérôme, F-13397 Marseille	¹ Inst P', U. Poitiers, Poitiers, France, ² Airbus Group Innovations, Suresnes, France, ² UPMC – LCMCP, Paris, France, ³ CIMCB U. Bordeaux, Bordeaux, France, ⁵ OliKrom, Pessac, France, ⁴ MAPAERO, Pamiers, France	'Paul Scherrer Institut. Villigen, Switzerland



Symposium	AT ZUI/	E2 E3	
Room	 CR II Hall/M2	CR III Hall/M2	Rehearsal Room 5.17/M1
Session Title	SOFC	Redox flow batteries / Li anodes	Photocatalysis
Chairperson	Peter Pfeifer & Jean-Yves Sanchez	P. Bruce	Jianwu Sun
	KEYNOTE/INVITED INVESTIGATION ON SOFC CATHODIC REACTION BY USING PATTERNED THIN FILM MODEL ELECTRODE	KEYNOTE/INVITED PHYSICAL CHEMISTRY AND TRANSPORT IN MATERIALS FOR REDOX FLOW BATTERIES	KEYNOTE/INVITED ARTIFICIAL PHOTOSYNTHESIS VIA SOLAR LIGHT DRIVEN CO2 REDUCTION INTO METHANOL
11.00	Mr. Koji Amezawa ¹ , Mr. Yoshinobu Fujimaki ¹ , Mr. Keita Mizuno ¹ , Mr. Yuta Kimura ¹ , Mr. Takashi Nakamura ¹ , Mr. Kiyofumu Nitta ² , Ms. Yasuko Terada ² , Mr. Keiji Yashiro ¹ , Mr. Fumitada Iguchi ¹ ,	Dr. Thomas Zawodzinski ¹² , Dr. Jing Peng ¹ , Dr. Gabriel Goenaga ¹ , Dr. Zhijiang Tang ² , Dr. Jamie Lawton ¹ , Dr. Che-Nan Sun ³	Mr. Myung Jong Kang ¹ , Dr. Chang Woo Kim ¹ , <u>Dr. Prof. Young Soo Kang</u> ¹
11.20	Mr. Hiroo Yugamii [*] , Mr. Tatsuya Kawada [†] - - - [†] Tohoku University, Sendai, Japan, ² JASRI, Sayo, Hyogo, Japan	¹ University of Tennessee-Knoxville, Knoxville, United States, ² Oak Ridge National Lab, ³ Electrosynthesis Co., Buffalo, USA	¹ Korea Center for Artificial Photosynthesis, Department of Chemistry, Sogang University, Seoul, South Korea
	OPERANDO STUDY OF CERIA BASED SOLID OXIDE ELECTROCHEMICAL CELLS	ELECTROCHEMICAL CHARACTERIZATION OF ELECTROSPUN URCHIN-LIKE V203 -CNF COMPOSITE NANOSTRUCTURE FOR VANADIUM REDOX FLOW BATTERY APPLICATION	PHOTOCATALYTIC PROPERTIES OF TiO2 THIN FILMS DOPED WITH NOBLE METALS (Ag. Au, Pd and Pt)
11.40	Dr. Catherine Dejoie ¹ , Dr. Fabiano Bernardi ² , Dr. Yi Yu ^{3,4} , Dr. Nobumichi Tamura ³ , Dr. Martin Kunz ³ , Dr. Matthew Marcus ³ , Dr. Bryan Eichhorn ⁴ , Dr. Zhi Liu ^{3,5}	Alessandra Di Blasi ¹ , Concetta Busacca ¹ , Orazio Di Blasi ¹ , Nicola Briguglio ¹ , Marco Ferraro ¹ , Vincenzo Antonucci ¹	<u>Dr Maria Kandyla</u> ¹ . Cherif Moslah ² . Dr Muhammad Islam ³ . Georgia Petropoulou ¹ . Dr George Mousdis ¹ . Dr Mohamed Ksibi ²
	'ESRF - The European Synchrotron, Grenoble, France, 'Instituto de Física, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil, 'Advanced Light Source, Lawrence Berkeley National Lab, Berkeley, USA, '1Department of Chemistry and Biochemistry, Uni- versity of Maryland, College Park, USA, 'School of Physical Science and Technology, Shanghai Tech University, Shanghai, China	¹Cnr Itae, Messina, Italia	¹ National Hellenic Research Foundation, Athens, Greece, ² University of Sfax, Sfax, Tunisia, ³ University of Tsukuba, Ibaraki, Japan
	DESIGN OF HIGH FUNCTIONAL INTERFACE IN ANODE OF IT-SOFC	INFLUENCE OF CARBON NANO-PARTICLE PHYSICOCHEMICAL PROPERTIES ON VANADIUM REDOX REACTIONS KINETICS	SURFACE AREA VS. PHOTOELECTROCATALYTIC ACTIVITY OF HIGHLY ORDERED TIO2 NANOTUBES. APPLICATION IN A SOLID-STATE PHOTOELECTROCHEMICAL CELL FOR WATER SPLITTING
12.00	Dr. Toshiyuki Mori ¹ , Dr Andrii REDNYK ¹ , Mr Akira Suzuki ¹ , Dr Takayoshi Tanji ² , Dr Shigeharu Ito ¹ , Dr Fei Ye ³	M.Sc. Eugenio Rovera¹, Ph.D. Francesco Fumagalli¹, Ph.D. Giorgio Nava¹, Ph.D. Matteo Zago², Ph.D. Andrea Casalegno², Ph.D. Fabio Di Fonzo¹	Mr. Christian Fleischer ¹ , Dr. Athanasios Chatzitakis ¹ , Dr. Mathieu Grandcolas ² , Dr. Sen Mei ² , Prof. Truls Norby ¹
	'National Institute for Materials Science, Tsukuba, Japan, 'Nagoya University, Nagoya, Japan, 'Dalian University of Technology, Dalian, China	'CNST@Polimi, Milano, Italy, 'Politecnico di Milano, Milano, Italy	¹ University Of Oslo, Department Of Chemistry, Oslo, Norway, ² SINTEF Materials and Chemistry, Oslo, Norway
	HIGHLIGHT OXYGEN EXCHANGE KINETICS AND LONG-TERM STABILITY OF INTERMEDIATE TEMPERATURE SOLID OXIDE FUEL CELL CATHODES	MICROSPHERES GRANULATED WITH MIXTURE OF SIOX NANOPARTICLES AND NANOWIRES FOR LI-ION BATTERY'S ANODE	TAILORING SURFACE OF BIVO4 PHOTOANODE FOR WATER SPLITTING
12.20	<u>Dr. Edith Bucher</u> ¹ , DiptIng. Christian Berger ¹ , Prof. Dr. Werner Sitte ¹	<u>Dr Boyun Jang</u> ', Dr Joonsoo Kim¹	Mrs. Mahsa Barzgar Vishlaghi ¹² , Mr. Abdullah Kahraman ¹² , Mrs. Sinem Apaydin ¹² , Dr. Shamsa Munir ¹² , Dr. Sarp Kaya ^{1,23}
	¹ Montanuniversidaet Leoben, Chair of Physical Chemistry, Leoben, Austria	'Korea Institute Of Energy Research, Daejeon, South Korea	¹ Materials science and Engineering Department. Koc University, Istanbul, Turkey, ² Koc University TUPRAS Energy Center, Istanbul, Turkey, ³ Chemistry Department. Koç University, Istanbul, Turkey
	MANUFACTURE OF 02-/H+ CERAMIC-BASED CELLS: IMPROVEMENT THROUGH WET CHEMICAL ROUTES AND INFILTRATION	LI-ION BATTERIES:THERMODYNAMICS OF INTERMETALLIC ANODE MATERIALS SYSTEMS	CARBON NITRIDE GROWTH ON ZnO ARCHITECTURES FOR ENHANCED PHOTOELECTROCHEMICAL WATER SPLITTING APPLICATION
12.40	Dr. Julian Dailly ¹ , Dr. Mathieu Marrony ¹	MSc Alexander Beutl ¹ , Dr. Siegfried Fürtauer ¹ , Dr. Dajjan Li ² , Dr. Damian Cupid ² , <u>Univ.Prof. Dr. Hans Flandorfer</u> ¹	<u>Špela Hajduk</u> ¹
	[†] European Institute For Energy Research, Karlsruhe, Germany	'University of Vienna, Dep. of Inorganic Chemistry - Functional Materials, Wien, Austria, 'Karlsruhe Institute of Technology, Institute for Applied Materials – Applied Materials Physics (IAM-AWP), Karlsruhe, Deutschland	¹ National Institute Of Chemistry, Ljubljana, Slovenia



	A1 2017		FINAL PROGRAM/IDESDAT/AMZ
Symposium	F1	H1	H2
Room	3-20/M1	I-16/M1	Conference Room 2/M1
Session Title	Calcium Phosphates in Tissue Engineering	Critical Magnetic Materials II	Metals Recovery and Production I
Chairperson	Sonia Fiorilli	Roderick Eggert	B. Mishra, Nlebedim Ikenna
	PRE-OSTEOBLAST AND ENDOTHELIAL CELL RESPONSE TO 3D SILICON SUBSTITUTED HYDROXYAPATITE SCAFFOLDS TREATED AT DIFFERENT TEMPERATURES WITH ADSORBED VEGF	KEYNOTE/INVITED RARE EARTH MAGNETIC MATERIALS FOR ENERGY APPLICATIONS	MATERIALS RECOVERY AND REGENERATION FROM SPENT LITHIUM-ION BATTERIES USING PHYSIOCHEMICAL ACTIVATION APPROACHES
11.00	Miss Natividad Gómez-Cerezo ^{1,2} , Laura Casarrubios³, Daniel Fernán- dez-Villa³, Dr Sandra Sánchez-Salcedo ^{1,2} , Dr. Maria Concepcion Serrano⁴, Dr Maria Jose Feito³, Dr Daniel Arcos ^{1,2} , Prof. Dr. Maria Vallet-Regi ^{1,2} , Prof. Dr. Maria Teresa Portolés³		Prof. Zhi Sun¹, Xiao Lin¹, Hongbin Cao¹, Yi Zhang¹
	¹ Department of Inorganic and Bioinorganic Chemistry, Universidad Complutense, Haspital 12 de Octubre, Madrid, Spain, ² CIBER-BBN, Madrid, Spain, ³ Biochemistry and Molecular Department Universidad Complutense de Madrid, IdISSC, Madrid, Spain, ⁴ Hospital Nacional de Parapléjicos, Servicio de Salud de Castilla-La Mancha, Toledo, Spain	<u>Dr. Matthias Katter</u> ¹	'Institute Of Process Engineering, Chinese Academy Of Sciences, Beijing, China
	EXOGENOUS MINERALIZATION OF DENTAL HARD TISSUES USING IRON DOPED BIOMATERIALS AND FEMTOSECOND LASERS		THERMODYNAMIC CHARACTERIZATION OF MOLTEN FLUORIDE-BASED FLUX FOR THE SUSTAINABLE PRODUCTION OF MAGNESIUM THROUGH SOLID OXIDE MEMBRANE (SOM) PROCESS
11.20	Dr Antonios Anastasiou¹, Dr S. Strafford⁴, Dr C.L. Thomson², Dr S.A. Hussain²², Dr T.J. Edwards², Dr P.M. Azpiazu², Dr M. Malinowski⁴, Dr C.T.A Brown², Dr M.N Routledge², Dr A.P. Brown¹, Prof. M.S. Duggal⁴, Prof. A. Jha	¹ Vacuumschmelze Gmbh & Co. KG, Hanau, Germany	Ms. Yumin Lee ¹ , Dr. Jae Gyo Yang ² , Prof. Joo Hyun Park ¹
	¹ School of Chemical and Process Engineering, University of Leeds, Leeds, United Kingdom, ⁵ SUPA, School of Physics and Astronomy, University of St Andrews, St Andrews, United Kingdom, ³ Cambridge Graphene Centre, Engineering Department, University of Cambridge, Cambridge, United Kingdom, ⁴ Leeds Dental School, University of Leeds, Leeds, United Kingdom, ⁵ Leeds Institute of Cardiovascular and Metabolic Medicine, Faculty of Medicine and Health, University of Leeds, Leeds, United Kingdom		¹ Department of Materials Engineering, Hanyang University, South Korea, ² Institute for Advanced Engineering (IAE), South Korea
	ZCAP CERAMICS: THE EFFECTS OF SINTERING TEMPERATURE ON THE VIABILITY OF MRC-5 FIBROBLAST LIKE CELLS IN CULTURE	HIGHLIGHT 3D PRINTING OF HIGH PERFORMANCE NAMED BONDED MAGNETS	CIRCULAR ECONOMY IN PERMANENT MAGNETS VIA MAGNET RECYCLING
11.40	Professor And Chairman Hamed Benghuzzi ¹	Dr. Parans Paranthaman ¹ , Dr. Ling Li ¹ , Dr. Orlando Rios ¹ , Dr. Brian Post ¹ , Dr. Vlastimil Kunc ¹ , Dr. I Nlebedim ² , Dr. Thomas Lograsso ² , Mr. Robert Fredette ³ , Dr. John Ormerod ³ , Mr. Aaron Williams ⁴ , Dr. Scott McCall ³	Dr. Ikenna Nlebedim¹
	'University Of Mississippi Medical Center, Jackson, USA	Oak Ridge National Laboratory, Oak Ridge, United States, ² Ames Laboratory, Ames, United State, ² Magnet Applications Inc., DuBois, United States, ² Arnold Magnetic Technologies, Rochester, United States, ² Lawrence Livermore National Laboratory, Livermore, United States	'Ames Laboratory, Us Department Of Energy, Ames, United States
	IRON DOPED CALCIUM PHOSPHATE BIOMATERIALS FOR TISSUE ENGINEERING	HIGHLIGHT MAGNETIC PROPERTIES OF MICROSTRUCTURALLY-MODIFIED Pr2Co14B MELT-SPUN RIBBONS	SELECTIVE REDUCTION AND SEPARATION OF EUROPIUM FROM MIXED RARE-EARTH OXIDES FROM WASTE FLUORESCENT LAMP PHOSPHORS
12.00	Mrs Emaan Alsubhe ¹ , Dr Antonios Anastasiou ¹ , Dr El Mostafa Raif ¹ , prof Animesh Jha ¹	Dr. Ikenna C. Nlebedim¹, Dr. Mianliang Huang, Dr. Kewei Sun¹, Dr. Lin Zhou¹, Dr. Matthew Kramer¹	Mark Strauss ¹ , Professor Brajendra Mishra ¹ , Patrick Eduafo ²
	'University Of Leeds, Leeds, United Kingdom	'Ames Laboratory, Us Department Of Energy, Ames, United States	¹ Metal Processing Institute, Worcester, United States, ² Colorado School of Mines, Golden, USA
	PRODUCTION OF TAILORED CALCIUM PHOSPHATE FOAMS SUITABLE FOR BONE TISSUE ENGINEERING APPLICATIONS	HIGHLIGHT DEVELOPMENT OF MnBi BASED PERMANENT MAGNET	STUDY OF TRIBUTYL PHOSPHATE AS COMPLEXING AGENT FOR Nd ELECTRODEPOSITION FROM IONIC LIQUIDS
12.20	Dr. Fani Stergioudi ¹ , PhD candidate Emmanouil Smyrnaios ¹ , Dr. Konstantina Viglaki ² , Assistant Professor Maria Chatzinikolaidou ² , Professor Nikolaos Michailidis ¹	Prof. Jun Cui ¹ , Dr. Matt Kramer ² , Prof. Duane Johnson ¹²	Phd Candidate Evangelos Bourbos¹, Professor Dimitrios Panias¹, Doctor Ioanna Giannopoulou¹, Professor Ioannis Paspaliaris¹
	¹ Physical Metallurgy Laboratory, Department of Mechanical Engineering, Aristotle University of Thessaloniki. Thessaloniki, Greece, ² Department of Materials Science and Technology, University of Crete, Heraklio, Greece	¹lowa Sate University, AMES, United States, ²Ames Laboratory, Ames, United States	¹ National Technical University of Athens, Athens, Greece
		HIGHLIGHT ADVANCED MANUFACTURING OF COMPACT RARE EARTH ELEMENT MAGNETS	PRELIMINARY STUDY OF MAGNESIUM PRODUCTION USING IONIC LIQUIDS
12.40		Scott Mccall ¹ , Alex Baker ¹ , Sarah Baker ¹ , Joshua Kuntz ¹ , Jon Lee ¹ , Christine Orme ¹	Mrs. Maria-Ioanna Pateli ¹ , Dr. Ioanna Giannopoulou ¹ , Prof. Dimitrios Panias ¹
		¹LLNL, Livermore, United States	'National Technical University Of Athens, Athens, Greece



Symposium	A5	A7	B1	B2
Room	MOYSA Hall/M2	I-08/M1	Conference Room 3/M1	Aimilios Riadis Hall/M2
Session Title	Nanoparticles: Synthesis and Applications III	Topological Insulators and Thermoelectrics	Advanced High Strength Steels II	Magnesium
Chairperson	Richard Curry	Oliver Rader	Elena Pereloma	Eric Nyberg
	HIGHLIGHT ENHANCING THE EXPLOITATION OF FUNCTIONAL NANOMATERIALS THROUGH SPATIAL CONFINEMENT	HIGHLIGHT ELECTRO-STRUCTURAL COUPLING EFFECTS IN CHARGED TRANSITION METAL DICHALCOGENIDES	HIGHLIGHT NANOSTRUCTURAL ENGINEERING OF ADVANCED HIGH STRENGTH STEELS	HIGHLIGHT MICROSTRUCTURE EVOLUTION IN A Mg-Zn-Y ALLOY STUDIED BY ANNULAR DARK FIELD ELECTRON MICROSCOPY AFTER DEFORMATION UNDER HIGH PRESSURE TORSION
15.00	<u>Prof. Miguel A. Correa-Duarte</u> ¹	<u>Dr. Antonio Cammarata</u> ¹, Prof. Tomas Polcar¹²	Dr Ilana Timokhina¹. Dr Hossein Beladi¹, Prof Peter Hodgson¹. Dr Jiangting Wang¹, Mr Ilias Bikmukha- metov¹	Dr. Dudekula A. Basha'. Dr. Ryoji Sahara'. Dr. Hidetoshi Somekawa'. Dr. Julian M. Rosalie ¹ . <u>Dr. Alok Singh</u> 1. Dr. Koichi Tsuchiya ¹
	¹ University of Vigo, Vigo, Spain	¹ Czech Technical University In Prague, Praha, Czech Republic, ² University of Southampton, Southampton, United Kingdom	[†] Deakin University, Geelong, Australia	1National Institute For Materials Science, Tsukuba, Japan
	ORGANOMETALLIC CHEMICAL LIQUID DEPOSITION: METASTABLE NANOPARTICLES AS PRECURSORS FOR CONFORMAL COPPER LAYERS IN 3D SILICON STRUCTURES	HIGHLIGHT ROLE OF NANOSTRUCTURING IN SILVER ANTIMONY TELLURIDE COMPOUNDS FOR THERMOELECTRIC APPLICATIONS	MICROSTRUCTURE AND TEXTURE EVOLUTION DURING ASYMMETRIC ROLLING OF A HIGH MANGANESE TWIP STEEL.	ACHIEVING FINE GRAIN STRUCTURE AND SUPER- PLASTICITY IN Mg-9AL-12n (AZ91) MAGNESIUM ALLOY USING SHORT FLOW ROLLING PROCESS
15.20	Dr. Pierre Fau ¹² , Dr. Jérémy Cure ¹ , Dr. Kilian Piettre ¹ , Dr. Alix Sournia-Saquet ¹ , Dr. Yannick Coppel ¹ , Dr. Jérome Esvan ²³ , Dr. Bruno Chaudret ⁴ , Dr. Benoit Riou ⁵ , Dr. Céline Bondoux ⁶	<u>Dr. Oana Cojocaru-Miredin</u> ¹² , M.Sc. Lamya Abdellaoui ² , Dr. Siyuan Zhang ³ , Prof. Christina Scheu ^{2,3} , Prof. Matthias Wuttig ¹ , Prof. Yaron Amouyat ⁴	Frederike Berrenberg¹, Dr. Christian Haase², Prof. Dr. rer.nat. Dmitri A Molodov¹, Dr. Jiangting Wang², Dr. Ilana Timokhina³, Dr. Rimma Lapovok³	Associate Professor Min Zha ¹ . Professor Huiyuan Wang ¹
	¹ LCC-CNRS, Toulouse, France, ² Université Fédérale de Toulouse, UT3 Paul Sabatier, Toulouse, France, 3CIRI- MAT-ENSIACET, Toulouse, France, ⁴ LPCNO-CNRS-INSA, Toulouse, France, ⁵ STMicroelectronics SAS Tours, Tours, France	¹ Rwth Aachen University, Aachen, Germany, ² Max-Planck Institut für Eisenforschung GmbH, Düs- seldorf, Germany, ³ Naterials Analytics, RWTH Aachen University, Aachen, Germany, ³ Iechnion-Israel Institute of Technology, Haifa, Israel	Institute of Physical Metallurgy and Metal Physics. RWTH Aachen University. Aachen. Germany. [‡] Departe- ment of Ferrous Metallurgy. RWTH Aachen University. Aachen. Germany. [‡] Institute for Frontier Materials. Deakin University. Geelong. Australia	¹ Jilin University, Changchun, China
	ATOM PROBE TOMOGRAPHY OF FUNCTIONAL NANOMATERIALS	SOLUTION-BASED SYNTHESIS AND PROCESSING OF DOPED Cu-BASED NANOMATERIALS AND THERMO- ELECTRIC GENERATORS	STRENGTHENING OF ADVANCED HIGH STRENGTH STEELS DURING BAKING TREATMENT	CHARACTERIZATION OF PRECIPITATE FREE ZONES IN A Mg-8AL-0.5Zn ALLOY
15.40	Prof. Dr. Peter Felfer ¹	Yu Liu', Gregorio García ^{2,3} , Silvia Ortega ¹ , Dr Doris Cadavid ¹ , Pablo Palacios ^{2,4} , Perla Wahnón ^{2,3} , Dr Andreu Cabot ^{1,5}	Univ.Prof. DrIng. Wolfang Bleck, Dr. Sonja Brühl, M. Sc. Sebastian Wesselmecking	Prof. Jayant Jain'. Mr. Anuz Zindal'. Prof. Rajesh Prasad ¹
	¹ Fau Erlangen, Erlangen, Germany	Catalonia Institute For Energy Research-IREC, Sant Adria de Besos, Spain, ² Instituto de Energia Solar, ETSI Telecomunicación, Universidad Politécnica de Madrid, Madrid, Spain, ² Departa- mento de Tecnologia Fotónica y Bioingeniería, ETSI Telecomunicación, Madrid, Spain, ² Departamento de Física aplicada a las Ingenierías Aeronáutica y Naval. ETSI Aeronáutica y del Espacio, Madrid, Spain, ³ Institució Catalana de Recerca i Estudis Avançats-ICREA, Barcelona, Spain	'RWTH - Steel Institute, Aachen, Germany	¹IIT Delhi. Delhi. India
	INCORPORATION AND LOCALIZATION OF TRANSITION METAL IONS IN COLLOIDAL Mg(0H)2 AND Ca(0H)2	KEYNOTE/INVITED THE IMPORTANCE OF 3D TOPOLOGICAL INSULATOR FOR THERMOELECTRIC APPLICATIONS	FATIGUE CRACK INITIATION ASSESSMENT In Al-Containing trip steels	3D MICROSTRUCTURE CHARACTERIZATION OF Semi-solid State Cast ZK60 Magnesium Alloy
16.00	<u>Dr Ioana Dorina Vlaicu</u> ¹, Dr Vasile Sergiu Nistor¹, Dr Mariana Stefan¹, PhD Student Alexandra Camelia Joita¹, Dr Valentin Adrian Maraloiu¹, Dr Leona Cristina Nistor¹, Dr Daniela Ghica¹		MSc. Mechanical Engineer Petros Christodoulou ¹ , <u>Dr. Alexis Kermanidis</u> ¹	MSc Stefan Zaunschirm ¹ , Dr. Guillermo Requena ² , Ph.D. Erenition Silva ³ , Dr. Haroldo Pinto ³ , Dr. Johann Kastner ¹
	¹ National Institute Of Materials Physics, Magurele-Ilfov, Romania	Prof. Dr. Kornelius Nielsch¹. Dr Andy Thomas¹	'University Of Thessaly, Volos, Greece	¹ University Of Applied Sciences Upper Austria, Wels, Austria, ² German Aerospace Center, Cologne, Germany, ³ Universidade de São Paulo, São Paulo, Brazil
	DEPOSITION OF CdSe/CdS NANORODS ON CONDUCTING GLASS BY INKJET PRINTING		LIGHTWEIGHTING OF TRANSFORMATION-INDUCED PLASTICITY STEELS	THE ROLE OF STRAIN LOCALIZATION BANDS IN MECHANICAL BEHAVIOR OF MAGNESIUM ALLOYS
16.20	<u>Franziska Lübkemann</u> 1, Dr. Ralf Anselmann², Torben Kodanek¹, Dr. Nadja C. Bigall¹	¹ Leibniz Institute for Solid State and Materials Research, Dresden, Germany	Dr. Jae-Bok Seol ¹ , Dr. HS Park ² , Dr. CG. Park ¹²	Dr. Konstantinos Baxevanakis ¹ . Dr. Antonios Kontsos ²
	¹ Leibniz Universität Hannover, Hannover, Germany, ² Evonik Resource Efficiency GmbH. Mart. Germany		"National Institute for Nanomaterials Technology, POSTECH, Pohang, South Korea, ² Department of Materials Science and Engineering, POSTECH, Pohang, South Korea	"Wolfson School of Mechanical, Electrical and Manufacturing Engineering, Loughborough University, Loughborough, United Kingdom." Mechanical Engi- neering & Mechanics Department, Drexel University, Philadelphia, United States
			ARREST OF HYDROGEN-ASSISTED SURFACE CRACKING IN hcp-TRIP AUSTENITIC STEELS	CREEP BEHAVIOR OF MRI-153 MAGNESIUM ALLOYS AND THE INFLUENCE OF A HEAT PRE-TREATMENT IN THE MORPHOLOGY OF THE PRECIPITATES DURING CREEP
16.40			Prof. Kaneaki Tsuzaki ¹	Dr Mónica Preciado ', José Calaf ¹ , Dr Pedro Miguel Bravo ¹
			¹Kyushu University, Fukuoka, Japan	'University Of Burgos, Avda. Cantabria s/n, Burgos, Spain



Symposium	B3	B5	В6	B10
Room	CR I Hall/M2	Conference Room 1/M1	I-11/M1	Maurice Saltiel Hall II/M2
Session Title	Phase Stability and Equilibria	Oxides	Advanced Composites - Sensing and Healing	Corrosion & Fatigue I
Chairperson	P. Tsakiropoulos	Helena Brunckova	Aravind Dasari	Nikolaos Michailidis and Brajendra Mishra
	HIGH-TEMPERATURE STABILITY OF PHASES IN BORON CONTAINING Co-Re ALLOYS FOR GAS TURBINE APPLICATIONS	EXPERIMENTAL INVESTIGATION AND THERMODYNAMIC MODELLING OF THE TIO2-MgO-AI203 SYSTEM	A CRITICAL ASSESSMENT OF MULTIFUNCTIONAL AND SELF-HEALING POLYMERS AND COMPOSITES WITH REGARDS TO THEIR POTENTIAL USE IN AERONAUTIC STRUCTURAL APPLICATIONS	HIGHLIGHT WEAR AND CORROSION PROPERTIES OF HIGH INTERSTITIAL STAINLESS STEELS FOR DRILLING APPLICATION IN SOUR GAS WELL ENVIRONMENTS
15.00	Dr. Pavel Strunz ¹ , Dr. Debashis Mukherji ² , Dr. Přemysl Beran ¹ , Dr. Ralph Gilles ³ , Dr. Michael Hofmann ² , Lukas Karge ³ , Prof. Joachim Rösler ²	Dr. Olga Fabrichnaya', Galina Savinykh', Franz Baerthel', Tilo Zienert1	Dr Christos Katsiropoulos ¹ , <u>Dipl-Eng Panagiota</u> <u>Polydoropoulou</u> ¹ , Dr Spiros Pantelakis ¹	Professor Brajendra Mishra¹. Dr. Eunkyung Lee¹, Dr. Walid Khalfaoui²
	Nuclear Physics Institute, Řež, Czech Republic, ² Technische Universität Braunschweig, Institut für Werkstoffe, Braunschweig, Germany, ³ Technische Universität München, Heinz Maier-Leibnitz Zentrum (MLZ), Garching, Germany	¹Technical University Bergakademie Freiberg, Freiberg, Germany	'University Of Patras-laboratory Of Technology And Strength Of Materials (Itsm), Rion-patras, Greece	¹ Metal Processing Institute, Worcester, United States, ² Texas A&M University at Qatar, University City, Qatar
	NDTIAL+SI SYSTEM: PRECIPITATION OF THE O-TIZAIND PHASE AND INFLUENCE OF THE SI DOPING FOR LOW PRESSURE TURBINE BLADE	EXPERIMENTAL INVESTIGATION OF THE Zr02—Ti02—MgO SYSTEM AND THERMODYNAMIC CALCULATIONS	LIVING MATERIALS: SMART ADAPTIVE MATERIALS WITH SENSING, HEALING AND SELF-SHAPING CAPABILITIES	EFFECT OF ARTIFICIAL AGING ON THE CORRO- SION-INDUCED HYDROGEN TRAPPING IN ALUMINUM ALLOY 2024-T3
15.20	Ms. Laurence Sikorav1. Pr. Philippe Vermaut ²³ , Mme Zhao Huvelin ¹ , Mme Anne Denquin ¹	<u>Dipling. Ivan Saenko</u> ', Ph.D. Olga Fabrichnaya'	<u>Dr Eleonora D'Elia¹</u> , Miss Hanae Said¹, Prof Eduardo Saiz¹	<u>Dr Helen Kamoutsi</u> ', Panagiotis Floratos', Charilaos Karantonidis', Dr Gregory Haidemenopoulos'
	ONERA- The French Aerospace Lab. Châtillon. France. *PSL Research University, Chimie ParisTech - CNRS, Institut de Recherche de Chimie Paris, Paris, France. *Sorbonne Universités, UPMC Univ Paris 06, UFR926, Paris, France	¹ Institute of Materials science. TU Bergakademie Freiberg, Freiberg, Germany	'Imperial College London, London, United Kingdom	¹ University of Thessaly, Volos, Greece
	PHASE EQUILIBRIA IN THE Ge-Nb-Si PHASE DIAGRAM	HYDRATION-INDUCED SPIN-GLASS STATE IN A FRUSTRATED Na-Mn-O TRIANGULAR LATTICE	MECHANICAL PERFORMANCE AND ULTRASONIC INSPECTION OF AN IMPACTED SKIN-STIFFENED COMPOSITE IMPLEMENTED WITH A SELF-HEALING FUNCTIONALITY	MORE EVIDENCE ON HYDROGEN EMBRITTLEMENT OF 2024-T3 AERONAUTICAL ALUMINUM ALLOY
	Dr Claire Utton ¹ , Dr Ioannis Papadimitriou ² , Dr Hajime Kinoshita ¹ , <u>Professor Panos Tsakiropoulos</u> ¹	Dr Ioanna Bakaimi ¹² , Dr Rosaria Brescia ² , Professor Craig M. Brown ⁴⁵ , Dr Alexander Tsirtin ⁴ , Professor Mark A. Green ² , Professor Alexandros Lappas ³	Mrs. Xenia Tsilimigkra ¹ , Mrs Athanasios Kolrotsos ¹ , Dr. Stavros Tsantzalis ¹ , Dr. George Sotiriadis ¹ , Profes- sor Vassilis Kostopoulos ¹ , Dr. Sonia Florez ² , Mr. Anthony Bosman ³	Prof. Spiros Pantelakis ¹ , Prof. Nikos Michailidis ² , <u>Dr. Apostolos Chamos</u> ¹ , Mrs. Marina Vasco ¹
15.40	¹ University Of Sheffield, United Kingdom, ² University of Warwick, United Kingdom	Institute of Electronic Structure and Laser. Foundation for Research and Technology-Hellas. Vassilika Vouton 71110 Greece. IDepartment of Physics. University of Grete. Voutes 71003 Greece. 3Manochemistry Department. Istituto Italiano di Tecnologia. Via Morego 30 Italy. *NIST Center for Neutron Research. 100 Bureau Drive. Gaithersburg USA. *Department of Chemical and Biomolecular Engineering. University of Delaware. Newark USA. *Experimental Physics VI. Center for Electronic Correlations and Magnetism. Institute of Physics. University of Augsburg. 86135. Germany. *School of Physical Sciences. University of Kent. Canterbury. United Kingdom	Department of Mechanical Engineering & Aero- nautics, University of Patras, Patras, University Campus GR 265 00 Patras, Greece, Industry and Transport Unit, Tecnalia, Parque Tecnológico de San Sebastián, Paseo Mikeletegi, 2, E-20009 San Sebastian, Spain, 'SupraPolix BV, Horsten 1,5612 AX, Eindhoven, The Netherlands	¹ University Of Patras, Patras, Greece, ² Aristotle University of Thessaloniki, Thessaloniki, Greece
	EFFECT OF COOLING RATE ON MICROSTRUCTURE EVOLUTION OF TI-45AI-8.5Nb-0.2W-0.2B-0.02Y ALLOY DURING MULTI-STEP HEAT TREATMENT	EXTERNAL HEALING OF CRACKS IN CEMENT-BASED MORTARS	STRUCTURAL HEALTH MONITORING OF GLASS FIBRE METAL HYBRID LAMINATES	THE EFFECT OF PRE-STRAINING ON THE CORROSION BEHAVIOUR OF 2024 AND 2198 ALUMINUM ALLOYS
16.00	Ph D Fengming Qiang ¹ , Pro Hongchao Kou ¹ , Pro Jinshan Li ¹	Associate Professor Maria Stefanidou', PhD Student Eirini-Chrysanthi Tsardaka', PhD Student Fotini Kesikidou', Associate Professor Eleni Pavlidou', Dr Spyridon Kassavetis'	Prof. Dr. Bodo Fiedler¹, M.Sc. Björn Bosbach¹, B.Sc. Ohle Christoph¹	PhD Student Christina Margarita Charalampidou¹. Stavros Kourkoulis², Alexandra Karanika³. Assistant Professor Nikolaos D. Alexopoulos¹
	'State Key Laboratory of Solidification Processing Northwestern Polytechnical University, Xi'an, China	¹Aristotle Univeristy Of Thessaloniki. Thessaloniki, Greece	1Hamburg University Of Technology, Hamburg, Germany	University Of Aegean, Chios, Greece, ¹ National Technical University of Athens, Athens, Greece, ³ Hellenic Aerospace Industry S.A., Athens, Greece
	ASSESSMENT OF EUTECTIC TROUGH AND SOLIDIFICATION PATHS IN NIAL-Cr-W SYSTEM		EFFECT OF GEOMETRICAL IMPERFECTIONS IN THE ELASTIC-PLASTIC FAILURE OF LATTICE MATERIALS	CORROSION PERFORMANCE OF STAINLESS STEEL CONCRETE REINFORCEMENT IN ACID RAIN SIMULATING ENVIRONMENTS USING FLY ASH AS CORROSION INHIBITOR
16.20	Dr. Srdjan Milenkovic¹, Dr. Arcadio Varona Caballero¹		Mr Bhapawin Boonkongchuen¹, Mr Chin Kerh Lim1, Dr William Ronan², <u>Dr Eral Bele</u> ¹	Sofia Tsouti ¹ , Angeliki Lekatou ¹ , Spyros Kleftakis ¹ , Alexandros Karantzalis ¹
	¹Imdea Material Institute, Madrid, Spain		¹ University College London, Department Of Mechanical Engineering, London, United Kingdom, ² NUI Galway, Galway, Ireland	¹ University Of Ioannina, Ioannina, Greece
	EXPERIMENTAL STUDY OF CLOSE-PACKED PHASES IN NICKEL-BASED SUPERALLOYS USING DIFFUSION MULTIPLES MANUFACTURED BY ENCAPSULATING CAST		METAL FOAMS AND ITS APPLICATIONS AS SEISMIC FUSES	IMPACT OF NOTCHES ON THE CORROSION FATIGUE BEHAVIOUR OF STRUCTURAL ALUMINIUM ALLOYS
16.40	<u>Dipling. Robert Popp</u> ¹ , DrIng. Rainer Völkl ¹ , DrIng. Thomas Göhler ² , ProfIng. Uwe Glatzel+		Dr. Hernan Pinto ¹ , Dr Alvaro Pena ¹	M.Sc. Francisco Duarte de Araújo¹, M.Sc. Tom Engler², Dr Ing, Heinz Kaufmann², Dr Ing, Georg Andersohn², Prof. Dr Ing, Tobias Melz¹, Prof. Dr Ing, Matthias Oechsner²
	¹ University Bayreuth, Bayreuth, Germany, ² MTU Aero Engines AG, Munich, Germany		'Pontificia Universidad Católica De Valparaiso, Chile, Avda Brasil 2147, Chile	¹ Technische Universität Darmstadt, Research Group System Reliability, Adaptive Structures and Machine Acoustics SAM, Darmstadt, Germany, ² Technische Universität Darmstadt, Chair and Institute for Materials Technology (PW, Darmstadt, Germany, ² Fraunhofer Institute for Structural Durability and System Reliability LBF, Darmstadt, Germany
				LBF, Darmstadt, Germany



Symposium	B11	C1	C2	C6
Room	Maurice Saltiel Hall III/M2	Friends of Music Hall/M1	Conference Room 4/M1	I-15/M1
Session Title	Advanced In-Situ Testing and X-Ray-Based Microstructure Analysis	Coatings and thin films 5/6 High-T coatings	Laser cladding and welding	Mechanical Properties and Modelling in Welding
Chairperson	M. Garcia Gonzalez	P. Psyllaki, R. Oliveira	Andres-Fabian Lasagni	Christof Sommitsch
	APPLICATION OF DIRECT FITTING METHOD TO THE MODIFIED WILLIAMSON-HALL METHOD	HIGHLIGHT FUNCTIONAL COATINGS BY LIQUID FEEDSTOCK PLASMA SPRAYING	EXPERIMENTAL AND NUMERICAL STUDY OF THE MOLTEN POOL SHAPE DURING A COAXIAL LASER CLADDING PROCESS; WITH AND WITHOUT POWDER INJECTION	STRAIN-RATE DEPENDENCY OF SIMULATED WELDING RESIDUAL STRESSES
15.00	Dr. Setsuo Takaki ¹ , Dr. Fu-ling Jang ¹ , Dr. Daichi Akama ¹ , Dr. Toshihiro Tsuchiyama ¹	Professor Nicolaie Markocsan	Miss Emna Abouda ¹ , Dr Morgan Dal ¹ , Dr Patrice Peyre ¹ , Dr Pascal Aubry ² , M Cyril Gorny ¹ , Dr Taha Nabil Tarfa ³	DipL-Ing. Stefanos Gkatzogiannis¹, Prof. DrIng. Peter Knoedel¹. Prof. DrIng. Thomas Ummenhofer¹
	¹Kyushu University, Fukuoka/ Nishi-ku/ 744 Motooka, Japan	¹ University West, Trollhättan, Sweden	¹ Ecole nationale des Arts et Metiers, 151 Boulevard de ('Hôpital, 75013 Paris, France, Paris, France, ² Den – Service d'Etudes Analytiques et de Réactivité des Surfaces (SEARS), CEA, Université Paris-Saclay, 91191 Gif sur Yvette, France, Paris, France, ³ Velan Montreal, Montreal H4T 162, Canada, Montreal, Canada	¹ Kit Steel & Lightweight Structures Research Center For Steel, Timber & Masonry ,Karsrluhe, Germany
	DIRECT CORRECTION OF THE ELASTIC ANISOTROPY IN WILLIAMSON-HALL PLOTS FOR COLD WORKED METALS	STRUCTURE, MECHANICAL AND TRIBOLOGICAL PROPERTIES OF Zr-Si-B-(N) NANOFILMS WITH OXIDATION RESISTANCE UP TO 1400°C	STUDY OF THE OPTICAL EMISSION DURING Cu-AL AND AL-AL LASER SPOT WELDING FOR MANUFAC- TURING OF SOLAR HEAT ABSORBERS	NUMERICAL ESTIMATION OF THE INTERMETALLIC LAYER THICKNESS IN ALUMINUM-STEEL WELDING
15.20	Dr. Fulin Jiang¹, Prof. Setsuo Takaki¹², Dr. Daichi Akama², Prof. Toshihiro Tsuchiyama¹²	Dr. Philipp Kiryukhantsev-korneev [†] , Margarita Lemesheva [†] , Dr. Daria Sidorenko [†] , Dr. Andrey Bondarev [†] , Prof. Evgeny Levashov [†]	Dr Panayiotis Siozos', Mr Michalis Andrianakis', Ms Triantafyllia Magana ² , Professor Demetrios Anglos ^{1,3} , Dr Elias Hontzopoulos ²	Zahra Silvayeh ¹ , Dr. Rudolf Vallant ¹ , Prof. Dr. Christof Sommitsch ¹ , Bruno Götzinger ² , Werner Karner ² , Matthias Hartmann ³
	'Materials Strengthening Science Research Center, Kyushu University, Fukuoka, Japan, ² Department of Materials Science and Engineering, Kyushu University, Fukuoka, Japan	1National University Of Science And Technology Misis, Moscow, Russian Federation	¹Institute of Electronic Structure and Laser of the Foun- dation for Research and Technology-Hellas, P.O. Box 1385, 71110, Heraklion, Greece, *PRIME Laser Tech- nology S.A. WOPA Kerateas, P.O. Box 97, 1901 Keratea Attikis, Greece, *Department of Chemistry, University of Crete, P.O. Box 2208, 71003, Heraklion, Greece	Graz University of Technology, Institute of Materials Science, Joining and Forming, Graz, Austria, *Magna Steyr Engineering Austria AG & Co KG and Magna Steyr Fahrzeugtechnik AG & Co KG, Graz, Austria, *Austrian Institute of Technology, Light Metals Technologies Ranshofen GmbH, Ranshofen, Austria
	EVALUATION OF DISLOCATION DENSITY IN COLD- WORKED AUSTENITIC STEEL SUS316L	CORROSION MECHANISM IN THERMAL BARRIER COATINGS DURING EXPOSURE TO A GAS MIXTURE CONTAINING SO2	STUDY OF THE MICROSTRUCTURE AND PROPERTIES OF NICIMOSI HARDFACING ALLOY ELABORATED BY LASER ADDITIVE MANUFACTURING PROCESS	PHASE-FIELD MODELING IN THE NUGGET Zone of FSW of AZ31 Mg Alloy
15.40	Takuro Masumura ¹² Fulin Jiang ¹ , Setsuo Takaki ¹² Daichi Akama ¹² , Toshihiro Tsuchiyama ¹²	Krishna Praveen Jonnalagadda¹. Xin-Hai Li², Ru Lin Peng¹	Cecile Blanc', <u>Pascal Aubry</u> ', Mohamed Sennour ² , Fanny Balbaud-Celerier', Hicham Maskro ¹	Dipl. Eng. Christos Prosgolitis ¹ . Dr Anna Zervaki ¹
	"Department of Materials Science and Engineering, Kyushu University, Japan, 2International Institute for Carbon-Neutral Energy Research, Kyushu University, Japan	¹ Department of Management and Engineering, Linköping University, Linköping, Sweden, ² Siemens Industrial Turbomachinery AB, Finspäng, Sweden	CEA/SACLAY/DEN-DPC-SEARS. Gif Sur Yvette 91191, France, ³ MINES ParisTech, PSL Research University, MAT-Centre des matériaux. CNRS UMR 7633. BP 87, BP 87-91003 Evry cedex, France	'University of Thessaly, Laboratory of Materials, Dept. of Mechanical Engineering, Volos, Greece
	DEFORMATION MECHANISMS OF MELT-CRYSTAL- LISED POLYMERS STUDIED BY IN-SITU X-RAY LINE PROFILE ANALYSIS AND HIGH RESOLUTION CREEP EXPERIMENTS	SINTERING BEHAVIOUR OF COLUMNAR THERMAL BARRIER COATINGS PRODUCED BY AXIAL SUSPEN- SION PLASMA SPRAYING	LASER CLADDING OF TOOL INSERTS FOR HOT FORMING OF SHEET METALS	PREDICTION OF THE REINFORCEMENT AREA (PRA) AND THE NUMBER OF BEADS (PNB) IN ROBOTIC STEEL ARC WELDING WITH CONSUMABLE WIRE: ANALYTICAL MODELLING AND EXTENSIVE EXPERI- MENTAL VALIDATION
16.00	<u>Dr. Florian Spieckermann</u> ¹ , Dr. Gerald Polt ² , Harald Wilhelm ^{2,3} , Mohammad Zare Ghomsheh ² , Dr Michael Kerber ^{2,5} , Prof. Dr. Erhard Schaffler ² , Dr. Sigrid Bernstorff ⁴ , Prof. Dr. Michael Zehetbauer ¹	Phd Student Ashish Ganvir ¹ , Associate Professor Nicolaie Markocsan, Doctor Mohit Gupta, Doctor Fran- tisek Lukac, PhD Student Johanna Ekberg, Professor Robert Vassen	Dr. Josef Domitner ¹ , Christoph Egger ¹ , Nino Müllner ¹ , Mustafa Kičin ² , Prof. Dr. Christof Sommitsch ¹	Mr Marios Kazasidis'
	"Montanuniversität Leoben, Leoben, Austria, "Fakultät für Physik, Universität Wien, Wien, Austria, "Laboratory for Polymer Engineering LKT-TGM, Wien, Austria, "ELETTRA Sincrotrone Tireste, Basovizza, Italy, "Materials Center Leoben, Leoben, Austria	[†] University West, Trollhattan, Sweden, Trollhättan, Sweden	¹ Graz University of Technology. Institute of Materials Science, Joining and Forming. Research Group Tools & Forming, Graz, Austria. ² Cosma Engineering Europe GmbH, Weikersdorf, Austria	'National Technical University of Athens. Nea Philadelfia, Greece
	FAILURE OBSERVATIONS IN SINTERED STEEL FOAMS FROM THE SUBMICRON TO THE MACRO SCALE	MICROSTRUCTURE OF SELF-HEALING THERMAL BARRIER COATINGS DEPOSITED BY SUSPENSION PLASMA SPRAYING		NUMERICAL MODELING AND EXPERIMENTAL MEASUREMENTS OF RESIDUAL STRESSES INDUCED BY MULTIPASS WELDING OF HIGH STRENGH STEEL PLATES
16.20	Ali Can-Kaya I, Dr. Paul Zaslansky ² , Prof.DrIng. Claudia Fleck ¹	Mr. Victor Carnicer ¹ , Mr. Eugeni Cañas ¹ , <u>Dr. María José Orts</u> ¹ , Dr. Rodrigo Moreno ² , Dr. Maria Dolores Salvador ³ , Dr. Pablo Carpio ³ , Ms. Lucia Navarro ³ , Dr. Enrique Sánchez ¹		Mr Constant Ramard ¹² , Pr Philippe Pilvin ² , Dr Denis Carron ² , Dr Florent Bridier ³
	¹ Technische Universität Berlin, Berlin, Germany, 2Charité - Universitätsmedizin Berlin, Berlin, Germany	Instituto de Tecnología Cerámica (ITC), Universitat Jaume I (UJI), Av.Sos Baynat s/n, 12006, Castellón, Spain, Instituto de Cerámica y Vidrio (ICV), Consejo Superior de Investigaciones Científicas (CSIC), Kelsen 5, E-28049, Madrid, Spain, Instituto de Tecnología de Materiales (ITM), Universitat Politècnica de València (UPV), Camino de Vera, s/n, 46022, Valencia, Spain		¹ IRT Jules Verne, Bouguenais, France, ² IRDL – FRE CNRS 3744, Lorient, France, ³ DCNS Research/CESMAN, Bouguenais, France
	ANISOTROPIC MECHANICAL BEHAVIOR OF NANO-LAMELLAR PEARLITIC STEEL	HIGHLIGHT REQUIREMENTS FOR HIGH TEMPERATURE MATERIALS AND COATINGS IN FUTURE ENERGY SYSTEMS WITH GROWING CONTRIBUTION OF RENEWABLE ENERGY GENERATION		QUALITATIVE PREDICTION OF THE RESIDUAL STRESSES IN FRICTION WELDED FULL AND HOLLOW SHAFTS
16.40	Dr. Pradipta Ghosh ¹ , <u>Oliver Renk</u> ¹ , Dr. Karoline Kormout ¹ , Dr. Ulrich Lienert ² , Prof. Jozef Keckes ¹ , Prof. Reinhard Pippan ¹	D. Naumenko ¹ , R. Pillai ¹ , A. Chyrkin ¹ , J. Quadakkers ¹ , <u>Prof. Dr., Lorenz Singheiser</u> l		Christoph Rößler ¹ , Dr. Eng, David Schmicker ² , Eric Heppner ¹ , Markus Körner ³ , Prof. Dr. Eng. Elmar Woschke ¹
	¹ Erich Schmid Institute of Materials Science, Leoben, Austria, ² Deutsches Elektronen-Synchrotron, Hamburg, Germany	¹ Institute of Energy and Climate Resaerch (IEK-2) Forschungszentrum Jülich GmbH, Jülich, Germany		Institute of Mechanics, Faculty of Mechanical Engineering, Otto-von-Guericke-University Magdeburg, Magdeburg, Germany, ² Sampro GmbH, Magdeburg, Germany, ³ Institute of Materials and Joining Technol- ogy, Faculty of Mechanical Engineering, Otto-von-Guer- icke-University Magdeburg



Symposium	D1	D2	D4	D9
Room	Artist Cafe/M1	Museum Hall /M2	Library Hall/M2	Maurice Saltiel Hall I/M2
Session Title	SPECTROSCOPIES-I	Epitaxial semiconductor heterostructures	Characterisation techniques of material properties across the length scales	Structural materials for GenIV prototypes and Advanced Modelling of Nuclear Structural Materials
Chairperson	Ullrich Pietsch and Mehmet Alper Sahiner	Philomela Komninou	Stanisław Kucharski & Eric Le Bourhis	C. Pareige
	HIGHLIGHT XAS/XES STUDIES OF ADVANCED MATERIALS	HIGHLIGHT EXPERIMENTAL QUANTIFICATION OF THE HAADF CONTRAST USING EDX AND ITS APPLICATIONS TO QCL DESIGN AND FABRICATION	HIGHLIGHT SIZE EFFECT IN INDENTATION TESTS: EXPERIMENTAL AND NUMERICAL INVESTIGATIONS	KEYNOTE/INVITED DESIGN RULES AND ASSESSMENT PROCEDURES FOR NUCLEAR COMPONENTS OPERATING AT HIGH TEMPERATURE
15.00	Lucia Amidani¹	<u>Dr Konstantinos Pantzas</u> ¹, Dr Ludovic Largeau¹, Dr Gilles Patriarche¹	Assoc.Prof. Stanisław Kucharski ¹ , Professor Stanisław Stupkiewicz ¹ , Professor Henryk Petryk ¹	
	¹ Esrf - The European Synchrotron, Grenoble, France	¹ Cnrs Center for Nanoscience and Nanotechnology, Marcoussis, France	'Institute of Fundamental Technological Research, Warsaw, Poland	Dr Karl-fredrik Nilsson¹
	CHEMICAL AND MORPHOLOGICAL HETEROGENEITY IN ZINC OXIDE THIN FILMS UNDER HUMIDITY TREATMENT	ATOMIC RESOLUTION ABERRATION CORRECTED ANNULAR DARK FIELD IMAGING OF GAASBI	A NEW APPROACH OF THE OLIVER AND PHARR MODEL TO FIT THE UNLOADING CURVE FROM INSTRUMENTED INDENTATION TESTING	
15.20	Kang Wei Chou¹, Stanislas Petrash², Hua Jiang³, Garth Williams¹, Juergen Thieme⁴, Dmytro Nykypanchuk², Li Li², Gwen Wright⁵, Fernando Camino⁵, Yu-chen Karen Chen-Wiegart³ ¹⁴	<u>Dr Thomas Walther</u> l, Dr Faebian Bastiman ¹ , Dr Toshihiro Aoki ²³	Stephania Kossman ¹² , Thierry Coorevits ² , Alain lost ² , Didier Chicot ¹	'European Commission DG-JRC, Petten, Netherlands
	¹ Henkel Ibérica S.A., Bellaterra, Spain, ² Henkel Corporation. Bridgewater, USA, ² Stony Brook University, Stony Brook USA, ⁴ National Synchrotron Light Source II, Upton, USA, ² Center of Functional Materials, Upton, USA	1University of Sheffield, Sheffield, United Kingdom, ² Arizona State University, Tempe, USA, ³ University of California, Irvine, USA	¹ Université Lille 1,FRE 3723 - LML - Laboratoire de Mécanique de Lille, Lille, France, +Arts et Métiers ParisTech, MSMP, Lille, France	
	IN SITU HARD X-RAY PHOTOEMISSION SPECTROSCOPY OF METAL/PMN-PT INTERFACES	HIGHLIGHT BASAL STACKING FAULT DOMAINS AS A SOURCE OF A-TYPE THREADING DISLOCATIONS IN III-NITRIDE EPITAXIAL LAYERS	CURRENT POSSIBILITIES OF STRESS-STRAIN CURVES BY NANOINDENTATION	POSITRON PROBING OF RADIATION-INDUCED SWELLING IN NUCLEAR MATERIALS
15.40	Dr. Adrian Petraru ¹ , Dr. Erik Kröger ² , Arndt Quer ² , Dr. Rohit Sonil ⁴ , Dr. Matthias Kalläne ²³ , Prof. Dr. N A Pertsev ⁴⁵ , Prof. Dr. Hermann Kohlstedt ¹ , Prof. Dr. Kai Rossnagel ²	PhD Julita Smalc-Koziorowska ¹ . MSc Calliope Bazioti ² , Dr. Martin Albrecht ³ , Dr. George Dimitrakopulos ²	<u>Philippe Kempe</u> ', Dr Jiri Nohava¹, Aurélien Tournier-Fillon¹	<u>Dr. Vladimir Krsjak</u> ¹, Dr. Yong Dai¹. Dr. Jan Kuriplach², Prof. Vladimir Slugen¹
	'Nanoelektronik, Technische Fakultät, Christian-Al- brechts-Universität zu Kiel, Kiel, Germany, 'Institut für Experimentelle und Angewandte Physik, Christian-Al- brechts-Universität zu Kiel, Kiel, Germany, 'Ruprecht- Haensel-Labor, Christian-Albrechts-Universität zu Kiel, Kiel, Germany, 'Ioffe Institute, St. Petersburg, Russia, 'Peter the Gred St. Petersburg Polytechnic University, St. Petersburg, Russia, 'Department of Physics, Indian Institute of Science Education and Research Berhampur, India	Institute of High Pressure Physics PAS, Warsaw, Poland. Physics Department, Aristotle University of Thessaloniki, Thessaloniki, Greece, ³ Leibniz Institute for Crystal Growth, Germany	¹ Anton Paar TriTec, Peseux, Switzerland	Paul Scherrer Institute, Villigen, Switzerland, ² Charles University, Prague, Czech Republik, ³ Slovak University of Technology, Bratislava, Slovakia
	UNDERSTANDING THE ROLE OF CERIUM OXIDE IN H202 DISSOCIATION BY HERFD-XANES	STRUCTURAL AND ELECTRONIC CHARACTERIZATION OF III-NITRIDE MATERIAL ScGan	INDENTATION RELAXATION TEST: THEORETICAL AND EXPERIMENTAL ANALYSIS	COMPARISON OF IN-SITU AND BULK ION IRRADIA- TION INDUCED MICROSTRUCTURE EVOLUTION IN FERRITIC/MARTENSITIC STEEL HT9
1/ 00	Dr. Paola Luches', <u>Francesco Benedetti</u> ¹² , Jacopo Stefano Pelli Cresi ¹⁷ , Prof. Sergio Valeri ¹² . Dr. Lucia Amidani ³ , Prof. Federico Boscherini ⁴⁵ , Valentina Nicolini ⁶ , Prof. Gianluca Malavasi ⁶	Simona Pace ¹ , Dr Robert J Davies ¹ , Dr Michelle A Moram ¹	Mr. Paul BARAL ¹ , PhD. Gaylord Guillonneau ¹ , Prof. Guillaume Kermouche ² , Prof. Jean-Michel Bergheau ³ , PhD. Jean-Luc Loubet ¹	Djamel Kaoumi ¹ , Ce Zheng ¹
16.00	"Istituto Nanoscienze, Consiglio Nazionale delle Ricerche, Modena, Italy, "Dip, di Scienze Fisiche Informatiche e Matematiche, Univ. di Modena e Reggio Emilia, Modena, Italy, "ESRF, Grenoble, France, "Dip, di Fisica e Astronomia, Università di Bologna, Bologna, Italy, "Istituto Officina dei Materiali, Consiglio Nazionale delle Ricerche, Trieste, Italy, "Dip, di Scienze Chimiche e Geologiche, Univ. di Modena e Reggio Emilia, Modena, Italy	¹ Department of Materials, Imperial College London, London, United Kingdom	¹ Université de Lyon, ECL. LTDS UMR CNRS 5513, Ecully, France, ¹ Ecole des Mines de Saint Elienne, Centre SMS, LGF UMR 5307, Saint Etienne, France, ³ Université de Lyon, ENISE, LTDS UMR CNRS 5513, Saint Etienne, France	'North Carolina State University, Raleigh, United States
	COMBINED XAS AND XES STUDY OF Mn AND Co VALENCE AND SPIN STATES IN ThMn1-xCox03	CUPIB ORDERING IN GAINP LAYERS ASSESSMENT THROUGH ABERRATION-CORRECTED TEM HAADF IMAGES AND SIMULATIONS	IDENTIFICATION AND CONTROL OF SOME FACTORS AFFECTING NANOINDENTATION MEASUREMENTS ON ELASTOMERS	
16.20	Vera Cuartero ¹ , Sara Lafuerza ¹ , Mauro Rovezzi ¹ , Erika Jiménez ³ , Joaquín García ² , Javier Blasco ² , Gloria Sublas ²	Catalina Coll', Lluis López-Conesa', Enrique Barrigón², Laura Barrutia², Ignacio Rey-Stolle², Carlos Algora², Sònia Estradé¹, Francesca Peiró¹	Clémence Fradet¹, Florian Lacroix¹, Gaëlle Berton¹, Stéphane Méo¹, Eric Le Bourhis²	
	'ESRF - The European Synchrotron, Grenoble, France, 2Instituto de Ciencia de Materiales de Aragón, Departamento de Física de la Materia Con- densada, Zaragoza, Spain, ³ Grenoble Alpes, CEA, INAC-SPINTEC- LETI MINATEC-CAMPUS, CNRS, SPINTEC, Grenoble, France	¹ Laboratory of Electron Nanoscopies (LENS)- MIND/IN2UB, Dept. d'Enginyeries: Electrònica, Universitat de Barcelona, Barcelona, Spain, ² 2.	¹ LMR/CERMEL, Tours, France, ² Institut P', Poitiers, France	
		SPONSOR PRESENTATION: NANOMEGAS - PRECES- SION ELECTRON DIFFRACTION APPLICATIONS IN TEM: FROM CRYSTAL STRUCTURE DETERMINATION TO ORIENTATION IMAGING AND STRAIN MAPPING AT NM SCALE	NANOINDENTATION IN YTZ FOR DENTAL APPLICATIONS – PITFALLS AND CONSEQUENCES	
16.40			Katharina Werbach ¹ , Christian Ebner ¹ , Stefan Hummel ¹ , Ulrich Lohbauer ² , Herwig Peterlik ¹	
			¹ University Of Vienna, Wien, Austria. ² Friedrich-Alexan- der Universität , Erlangen-Nürnberg, Germany	

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LUNUM	AI ZUI/	FINAL PROGRAM/IUESDAY/PM		
Symposium	E1	E2	E3	
Room	CR II Hall/M2	CR III Hall/M2	Rehearsal Room 5.17/M1	
Session Title	Electrocatalysts	Microbatteries	Thermoelectrics II	
Chairperson	Koji Amezawa & Stephen Holdcroft	P. Knauth	Gao Min	
	KEYNOTE/INVITED CARBON NANOTUBES BASED HYBRID ELECTROCATALYSTS FOR HYDROGEN EVOLUTION	KEYNOTE/INVITED 30 NANOMATERIALS FOR HIGH PERFORMANCE Li-ion MICROBATTERIES	HIGHLIGHT SILICIDE THERMOELECTRICS FOR ENERGY HARVESTING	
15.00			Dr. Alexander Burkov ¹	
	Mr Olli Sorsa ¹ , Mr Olli Pakkanen ¹ , Mr Mohammad Tavakkoli ¹ , Professor Kari Laasonen ¹ , Professor Albert Nasibulin ² , <u>Professor Tanja Kallio</u> ¹	Professor Thierry Djenizian ¹	¹ loffe Institute, Saint-Petersburg, Russian Federation	
			INITIATIVE TO BRING 2nd GENERATION OF THERMO-ELECTRIC GENERATORS INTO INDUSTRIAL REALITY (INTEGRAL)	
15.20	¹ Aalto University, Espoo, Finland, ² Skolkovo Institute of Science and Technology, Moscow, Russia	¹Ecole Nationales Supérieure Des Mines de Saint-Etienne, Gardanne, France	Dring. Jean-yves Escabasse ^{1,2} , Mr. Luc Aixala ^{1,2} , Dr. Christelle Navonne ^{1,2} , Dr. Krunoslav Romanjek ^{1,2} , Mr. Jean Leforestier ^{1,2}	
			¹ Univ. Grenoble Alpes, Grenoble, France, ² CEA Lilen, Grenoble, France	
	ELECTRO-CATALYTIC HOLLOW-FIBER MEMBRANE FOR HYDROGEN EVOLUTION AND FILTRATION OF TREATED WASTEWATER	AN ALL-SOLID-STATE 3D THIN-FILM Li-ion BATTERY FABRICATED ON A SILICON MICROPILLAR ARRAY	HIGHLIGHT PRODUCTION TECHNOLOGY OF THERMOELECTRIC FUNCTIONALIZED SINGLE LEGS ON INDUSTRY-SIZED SCALE FOR WASTE HEAT RECOVERY	
15.40	Dr. Krishna Katuri ¹ , Dr. Narasimha Bettahalli ¹ , Professor Suzana Nunes ¹ . <u>Associate Professor Pascal Saikaly</u> 1	Maarten Mees ¹ , Nouha Labeydh ¹² , Brecht Put ¹ , Sebastien Moitzheim ¹² , Alfonso Sepulveda ¹ , Mariadriana Creatore ³ , W. M. M. Kessels ³ , Philippe Vereecken ¹²	<u>Dr. Christian Stiewe</u> ¹	
	¹ King Abdullah University Of Science And Technology, Saudi Arabia	'Imec, Leuven, Belgium. =Department of Microbial and Molecular Systems, Centre for Surface Chemistry and Catalysis, KU Leuven – University of Leuven, Leuven, Belgium, +Department of Applied Physics, Eindhoven University of Technology, Eindhoven, The Netherlands	¹ DLR, Cologne, Germany	
	MODELLING LaFe03 FOR IT-SOFC CATHODE APPLICATIONS	NOVEL THIN-FILM SOLID-COMPOSITE ELECTROLYTE FOR 3D LITHIUM-ION MICROBATTERIES BY COMBINING MOLECULAR AND ATOMIC LAYER DEPOSITION	DOPING AS A WAY TO CONTROL THE TYPE OF CONDUCTIVITY IN REGULAR AND NANO-GRAINED THERMOELECTRIC MATERIALS: DENSITY FUNCTIONAL THEORY STUDY	
16.00	Miss Felicity Taylor ¹ , Dr John Buckeridge ¹ , Prof. Richard Catlow ^{1,2}	Knut Bjarne Gandrud ¹² , Simon Hollevoet ¹² , Kevin Van de Kerckhove ³ , Brecht Put ^{1,4} , M. Creatore ⁴ , W.M.M. Kessels ⁴ , Christophe Detavernier ³ , Philippe Vereecken ¹²	Prof. David Fuks¹, Gennady Komisarchik¹, Maor Kaller¹, Kiril Kirievsky¹, Prof. Yaniv Gelbstein¹	
	¹ Department of Chemistry, University College London, London, United Kingdom, ² Department of Chemistry, Cardiff University, Cardiff, United Kingdom	'imec. Kapeldreef 75. B-3001 Leuven. Belgium. 'KU Leuven - University of Leuven. Centre for Surface Chemistry and Catalysis, Celestijnenlaan 200F. B-3001 Leuven. Belgium. 'Department of Solid State Sciences, Ghent University, Krijgslaan 281 51, 9000 Gent. Belgium. 'Department of Applied Physics, Eindhoven University of Technology, 5600 MB Eindhoven, The Netherlands	[†] Ben Gurion University Of The Negev, Beer Sheva, Israel	
	ELECTRODEPOSITION OF AMORPHOUS/NANOCRYSTALLINE Ni-Mo ALLOY FOR HYDROGEN EVOLUTION REACTION	LICUPO4 THIN FILM AS CATHODE IN ALL-SOLID-STATE 3D LI-ION BATTERIES	HIGHLIGHT ELECTRONIC BAND STRUCTURE FEATURES IMPROVING THERMOELECTRIC CONVERSION	
16.20	Mert Manazoğlu', Dr. Gökçe Hapçı Ağaoğlu ', Prof. Dr. Gökhan Orhan'	<u>Dr Florence Vacandio</u> ¹ . Vinsensia ADE SUGIAWATI ¹ . Pr Philippe KNAUTH ¹ , Pr Thierry DJENIZIAN ²	Prof. Janusz Tobola ¹ , Dr Bartłomiej Wiendlocha ¹ , Dr Kamil Kutorasinski ¹ , Prof. Stanisław Kaprzyk ¹	
	'Istanbul University	'Madirel, ElMa Team, AIX-MARSEILLE UNIVERSITY, Marseille, France, ² Flexible Electronics Department, Center of Microelectronics in Provence, GARDANNE, France	¹ AGH University Of Science And Technology. Krakow. POLAND, 30-059 Krakow, Poland	
	HIGHLIGHT ADVANCED MATERIALS FOR WATER SPLITTING IN A PEM ELECTROLYSER			
16.40	Stefania Siracusano¹, Vincenzo Baglio¹, Nicholas Van Dijk², Luca Merlo³, Antonino Salvatore Aricò¹			
	¹ CNR-ITAE, Messina, ITALY, ² ITM power, Sheffield, UK, ² Solvay Specialty Polymers ,Ballate, ITALY			



Symposium	F1	Н1	H2
Room	3-20/M1	I -16/M1	Conference Room 2/M1
Session Title	Bioactive glasses for bone regeneration and infection	Manufacturing of Funtcional Magnetic Materials	Metals Recovery and Production II
Chairperson	Chiara Vitale-Brovarone	lver Anderson	D. Panias, Moyer Bruce
	ZINC-ENRICHED MESOPOROUS GLASSES LOADED WITH PTHIP (107-111) IMPROVE OSTEOBLASTIC GROWTH AND DIFFERENTIATION	HIGHLIGHT ENERGY-EFFICIENT REFRIGERATION NEAR ROOM TEMPERATURE WITH TRANSITION METAL BASED MAGNETIC REFRIGERANTS	RESEARCH PROGRESS IN DIVERSIFYING THE SUPPLY OF CRITICAL MATERIALS FOR CLEAN ENERGY
15.00	Miss Rebeca Perez ¹ , Dr. Sandra Sanchez-Salcedo ¹² , Dr. Daniel Lozano ¹² , <u>Dr. Antonio J Salinas¹²</u> , Prof. Pedro Esbrit ¹ , Prof. Maria Vallet-Regi ¹²	Ekkes Bruck ¹ , Nguyen Van Thang ¹ , Maurits Boeije ¹ , Lian Zhang ¹ , Xin Min You ¹ , Michael Maschek, Niels van Dijk	Corporate Fellow Bruce Moyer ¹
	'Universidad Complutense de Madrid, Madrid, Spain, ² CIBER-BBN, MADRID, España	¹ Fundamental aspects of Materials and Energy, Aplied Sciences, TU Delft, Delft. Netherlands	¹ Oak Ridge National Laboratory, Oak Ridge, United States
	SMART SCAFFOLDS FOR OSTEOPOROTIC FRACTURES	ALUMINUM CERIUM ALLOYS: THE NEXT STEP IN ALUMINUM	BIOMATERIAL NICKEL-TITANIUM SUPER ALLOYS RECYCLING VIA HYDROMETALLURGICAL METHODS
15.20	PhD Chiara Vitale-Brovarone¹, PhD Giorgia Novajra¹, Eng. Giulia Moli- no¹, Eng. Giorgia Montalbano¹, PhD Sonia Fiorilli¹, PhD Giovanni Vozzi², PhD Monica Mattioli-Belmonte³, PhD Gabriela Ciapetti⁴	Zachary Sims ¹	Mr. Muhammed Ihsan Ozgun¹, Prof. Dr. Mahmut Ercan Acma², MSc. Ahmet Burcin Batibay¹, Dr. Arslan Terlemez¹, Dr. Yasin Ramazan Eker¹
	Politecnico di Torino - Department of Applied Science and Technology, Torino, Italy, ² Dipartimento di Ingegneria dell'Informazione, University of Pisa, Pisa, Italy, ³ DISCLIMO, Università Politecnica delle Marche, Ancona, Italy, + Laboratorio di Fisiopatologia Ortopedica e Medicina Rigenerativa, Istituto Ortopedico Rizzoli, Bologna, Italy	¹ Oak Ridge National Laboratory, Oak Ridge, United States	¹ Konya Necmettin Erbakan University, Konya, Türkiye, ² Istanbul Technical University, Istanbul, Türkiye
	LI-CONTAINING MESOPOROUS BIOACTIVE GLASS NANOPARTICLES FOR BONE REGENERATION	RARE EARTH ALTERNATIVES: SUBSTITUTION OF CRITICAL MATE- RIALS AND WASTE REDUCTION BY NET-SHAPE PROCESSING & ADDITIVE MANUFACTURING OF ALNICO PERMANENT MAGNETS	THE DISTRIBUTION OF P6 BETWEEN THE Fe-Si-Cu-O SYSTEM AND COPPER METAL
15.40	Dr. Preethi Balasubramanian¹, <u>Kai Zheng</u> ¹, Georgia Charalambopoulou², Theodore Steriotis², Prof. Dominique de Ligny³, Prof. Aldo Boccaccini¹	<u>Dr. Emma White</u> ¹, Mr. Aaron Kassen¹, Mr. Emrah Simsek¹, Mr. Wei Tang¹, Dr. Ryan Ott¹, Dr. Iver Anderson¹	Dr.ir. Amy Van den Bulck', Dr. ing. StuartTurner ² , Dr. ir. Muxing Guo ¹ , Dr. ir. Annelies Malfliet ¹ , Prof. dr. ir. Bart Blanpain ¹
	Institute of Biomaterials, University Of Erlangen-Nürmberg, Germany, Institute of Nanoscience and Nanotechnology, NCSR Demokritos, Greece, Institute of Glass and ceramics, University of Erlangen-Nürn- berg, Germany	[†] Ames Laboratory of USDOE, Ames, United States	¹ Department of Materials Engineering. KU Leuven, Kasteelpark Arenberg 44, bus 2450, Belgium, ² Aurubis Belgium RDI, Watertorenstraat 25, Belgium
	PROCESSING AND ANTIBACTERIAL CHARACTERIZATION OF THERAPEUTIC ION-DOPED MESOPOROUS BIOACTIVE SILICATE GLASSES (MBGS)	SPIN AND LATTICE DYNAMICS OF MAGNETOCALORIC COMPOUNDS Mn5-xFexSi3	CHLORINE ADDITION TO INDUSTRIAL SLAG FUMING PROCESSES: A THERMODYNAMIC STUDY
16.00	Miss Seray Kaya¹, Professor Dr. Aldo R Boccaccini¹, Dr. Mark Cresswell²	MSc Nikolaos Biniskos¹², Dr Karin Schmalzl¹, Dr Stephane Raymond², Dr Sylvain Petit³, Dr Paul Steffens⁴, Mr Joerg Persson⁵, Prof Thomas Brueckel⁴	Dir. Sabrina Van Winkel ¹ , Dr. ir. Lennart Scheunis ² , Dr. ir. Annelies Malfliet ¹ , Dr. ir. Frederik Verhaeghe ¹² , Prof. Dr. ir. Bart Blanpain ¹
	¹ Institute Of Biomaterials, University Of Erlangen-nuremberg, Erlangen, Germany, ² Lucideon Ltd, Stoke-on-Trent, United Kingdom	¹ JCNS, Forschungszentrum Juelich GmbH, Outstation at ILL, Grenoble, France, 2CEA-Grenoble, INAC MEM, 38054 Grenoble, France; CEAE-CNRS UMR 12, IRAMIS LLB, 91190 Gif-sur-Yvethe, France-finstitute Laue-Langevin, BP 156, 38042 Grenoble, France-fiCNS, Forschungszentrum Juelich GmbH, 52425 Juelich, Germany, 4/LNS and PGI, JARA-FIT, Forschungszentrum Juelich GmbH, 52425 Juelich, Germany	¹ Department of Materials Engineering (MTM), KU Leuven, B-3001 Heverlee, Belgium, ² Umicore Research, B-2250 Olen, Belgium
	DEVELOPMENT AND CHARACTERIZATION OF MESOPOROUS GLASS COATINGS WITH ANTIBACTERIAL ION RELEASE CAPABILITY	FIELD-ENHANCED PROCESSING OF MAGNETICALLY RESPONSIVE CERAMIC MATERIALS	
16.20	Francesca Elisa Ciraldo ¹ , Prof. DrIng. habil. Aldo R. Boccaccini ¹	Dr. Raymond Brennan ¹ , Dr. Victoria Blair ¹ , Dr. Michael Kornecki ¹ , Dr. Selva Raju ¹ , Dr. Nicholas Ku ¹	
	'Friedrich-Alexander University. Institute of Biomaterials, Erlangen, Germany	¹ US Army Research Laboratory, Aberdeen Proving Ground, United States	
	MESOPOROUS BIOACTIVE GLASSES WITH ANTIBACTERIAL ADHESION PROPERTIES OBTAINED BY ZWITTERIONIC SURFACE MODIFICATION		
16.40	PhD Ana García ¹² , PhD Sandra Sánchez-Salcedo ^{1,2} , PhD María Vallet-Regi ^{1,2}		
	¹ 1 Department of Inorganic and Bioinorganic Chemistry, Universidad Complutense de Madrid, Hospital 12 de Octubre, Spain, Madrid, Spain, ² CIBER-BBN, Spain, Madrid, Spain		



Symposium	A5	A7	B1	B1(PARALLEL SESSION)
Room	MOYSA Hall/M2	I-08/M1	Conference Room 3/M1	Conference Room 1/M1
Session Title	Nanoparticles: Synthesis and Applications IV	Novel dielectrics	Advanced High Strength Steels: III	Advanced Characterisation I
Chairperson	Raffaela Buosanti	Kornelius Nielsch	Kaneaki Tsuzaki	Cem Tasan
	HIGHLIGHT BOTTOM-UP ENGINEERING OF THERMOELECTRIC NANOMATERIALS AND DEVICES FROM SOLU- TION-PROCESSED NANOPARTICLES	HIGHLIGHT FERROELECTRIC POLYMER NANOSTRUCTURES INDUCED BY LASER PULSED IRRADIATION	HIGHLIGHT IN SITU INVESTIGATIONS OF PARTITIONING MECHANISMS IN Q&P STEELS BY SYNCHROTRON DIFFRACTION EXPERIMENTS	THE ROLE OF PHASE TRANSFORMATION MECHANISM ON GRAIN BOUNDARY CHARACTER DISTRIBUTION IN HSLA STEELS
17.30	Doris Cadavid¹, Silvia Ortega¹, Yu Liu¹, Andreu Cabot¹	Esther Rebollar ¹ , Jing Cui ² , Margarita Hernández ¹ , Álvaro Rodríguez ² , Mari Cruz García Gutiérrez ² , Tiberio A Ezquerra ² , <u>Aurora Nogales</u> ²	Pr. Sébastien Allain¹, Dr. Guillaume Geandier¹, Dr. Jean-Christophe Hell², Dr. Michel Soler², Dr. Frédéric Danoix³, Samy Aoued⁴, Pr. Mohamed Goune⁴	<u>Dr Hossein Beladi</u> i
	¹ Catalonia Institute for Energy Research - IREC, Sant Adria Del Besos, Barcelona, Spain	'Instituto de Química Física Rocasolano, IGFR-CSIC, Madrid, Spain, ² Instituto De Estructura De La Materia, IEM-CSIC, Madrid, Spain	'Institut Jean Lamour, Nancy, France, 'Arcelormittal Maizières Research SA. Maizières les Metz, France, 'Groupe de Physique des Matériaux, Rouen, France, 'Institut de Chimie de la Matière Condensée de Bordeaux, Bordeaux, France	[†] Deakin University, Geelong/Waurn Ponds, Australia
	HIGHLIGHT COLLOIDAL NANOCRYSTALS TO ADVANCE STUDIES IN SOLAR-TO-CHEMICALS CONVERSION	EVIDENCES OF FERROELECTRICITY IN ZnO Nanoparticles	IN SITU µ-DIC MEASUREMENTS FOR STRAIN PARTITIONING IN MEDIUM Mn STEEL	COLLOIDAL ANALYSIS OF PARTICLES EXTRACTED FROM MICROALLOYED STEEL
17.50	Raffaella Buonsanti ¹	<u>Dr Eleni Pavlopoulou</u> ¹, Dr Jon Maiz¹, Dr Guillaume Fleury¹, Prof. Georges Hadziioannou¹, Prof. Vincent Rodriguez², Dr Mario Magliona², Dr Pauline Loxq⁴, Dr Katia Fajerwerg⁴, Dr Pierre Fau⁴, Dr Myrtil Kahn⁴, Guillaume Guegan³	Aniruddha Dutta ¹ , Dr. Dirk Ponge ¹ , DrIng. Stefanie Sandlöbes ² , Prof. DrIng. habil. Dierk Raabe ¹	Andreas Hegetschweiler ¹ , Aljosha-Rakim Jochem ¹ , Anna Zimmermann ¹ , Dr. Thorsten Staudt ² , Prof. Dr. Tobias Kraus ¹
	¹ EPFL, Sion, Europe	1Laboratoire de Chimie des Polymères Organiques (LCPO – UMR5529), Université de Bordeaux/Bordeaux INP/CNRS, Pessac, France, 'Institut des Sciences Moléculaires (ISM – UMR5255), Université de Bordeaux/CNRS, Talence, France, 'Institut de Chimie de la Matière Condensée de Bordeaux (ICMCB – UPR9048), CNRS, Pessac, France, 'Laboratoire de Chimie de Coordination (LCC – UPR8241), CNRS, Toulouse, France, 'ST Microelectronics, Tours, France	¹ Max-Planck-Institut für Eisenforschung GmbH. Düs- seldorf, Germany. ² Institute of Physical Metallurgy and Metal Physics, RWTH Aachen, Aachen, Germany	¹ INM - Leibniz Institute For New Materials, Saarbruecken, Germany, ² AG der Dillinger Huettenwerke, Dillingen, Germany
	HIGHLIGHT NANOCRYSTAL PHOTODETECTORS	OPTICAL FILTERS AND ELECTRICAL CAPACITANCES BASED ON NANOCOMPOSITES COMPOSED OF NANOPARTICLES EMBEDDED IN A DIELECTRIC MATRIX	MODELING OF CONTINUOUS TRANSITIONS IN THE PARTITIONING MODE OF ALLOYING ELEMENTS DURING ISOTHERMAL FERRITE AND BAINITE FORMATION	TEM OBSERVATION OF MOVING AUSTENITE-FERRITE INTERFACES IN STEELS
18.10	Prof. Richard J Curry	<u>Phd. Student Vanessa Orozco</u> ¹. Frédéric Dumas-Bouchiat¹, Cédric Jaoul¹, Pascal Tristant¹	Mr. Hussein Farahani ¹ . Prof. dr. ir. S. Sybrand van der Zwaag ¹ . Professor Wei Xu ¹²	<u>Mr John Nutter</u> ¹ , Prof Mark Rainforth ¹ , Prof Sybrand van der Zwaag ²
	¹ University of Manchester, United Kingdom	¹ Univ. Limoges, CNRS, SPCTS, UMR 7315, F-87000 Limoges, France, Limoges, France	"Novel Aerospace Materials group, Faculty of Aerospace Engineering, Delft University of Technology, Delft, Netherlands, "State Key Laboratory of Rolling and Automation, Northeastern University, Shenyang, China	¹ University Of Sheffield. Sheffield. United Kingdom, ² TU Delft, Delft. The Netherlands
	LOCAL FIELD EFFECTS ON THE RADIATIVE RATE OF Mn2+ EMISSION IN ZnSe:Mn NANOCRYSTALS	DIELECTRIC AND LIGHT-EMISSION PROPERTIES OF Cr4+ DOPED Cain204-C HYBRID NANOSTRUCTURE	EFFECT OF CHROMIUM AND MANGANESE PARTI- TIONING IN LOW ALLOYED STEEL AFTER ULTRA – FAST HEAT TREATMENT	THE EFFECT OF MO ON PRECIPITATION KINETICS IN A TI CONTAINING HSLA STEEL
18.30	Ms. Elleke van Harten ¹ , Ms. Riande Dekker ¹ , Mr. Tim Prins ¹ , Prof. dr. Andries Meijerink ¹	<u>Ms. Barkha Tiwari</u> ¹ , Prof. Shanker Ram ¹	<u>DiplEng. Marianthi Bouzoun</u> i ¹² , DrIng. Spyros Papaefthymiou ¹	Dr. Yiqiang Wang ¹² , Mr. Samuel Clark ² , Dr. Vit Janik ² , Dr. Biao Cai ¹² , Dr. Diego Alba Venero ⁴ , Dr. Kun Yan ¹ , Professor Graham McCartney ⁵ , Professor Sridhar Seetharaman ³ , <u>Professor Peter David Lee¹²</u>
	¹ Condensed Matter and Interfaces, Debye Institute for Nanomaterials Science, Utrecht University, Utrecht, Netherlands	¹Indian Institute Of Technology, Kharagpur, Kharagpur, India	¹ National Technical University Of Athens. 9. Her. Polytechniou str., Zografas, Greece, ² ELKEME S.A., 56th km Athens – Lamia National Road Oinofyta, Greece	School of Materials, University of Manchester, Manchester, M13 PPL, UK, United Kingdom: NMF: Research Complex at Harwell, Harwell Campus, Odordshre, OUI ToPA, United Kingdom: VIMG, University of Worwick, United Kingdom: VIST Sacility, Rutherford Appliedn Laboratory, Diatol, Oxfortshire, OXIT OXIG, UK, United Kingdom: Natvanced Materials Group, Faculty of Engineering, University of Honglowering, University of Honglowering, University of National Complexity, University
	FABRICATION AND ELECTRICAL CHARACTERIZATION OF HETEROJUNCTION CdSe/Cu25e NANOWIRES VIA THE MASKED CATION EXCHANGE		CHARACTERIZATION OF QUENCHING AND PARTITIONING MICROSTRUCTURES IN MARTENSITIC STAINLESS STEELS	BORON SEGREGATION AND PRECIPITATION AT AUSTENITE GRAIN BOUNDARIES IN ADVANCED HIGH-STRENGTH STEELS
18.50	<u>Dr. Sedat Dogan</u> ', Dr. Stefan Kudera', Prof.Dr. Liberato Manna', Prof.Dr. Roman Krahne ¹		Ir Gorka Martin-Donate ¹ , Ir. Javier Vivas ¹ , Ir. Cristian Lopez-de-Felipe ¹ , Ir. Miguel Benito-Alfonso ¹ , Dr. Jose Antonio Jimenez ¹ , Dr. M.X. Huang ² , Dr. David San-Martin ¹	Mr. Gregory da Rosa ¹² , Pr. Philippe Maugis ² , Ms. Josée Drillet ¹ , Dr. Nathalie Valle ² , Pr. Khalid Hoummada ²
	'Istituto Italiano Di Tecnologia, Genova, Italy		¹ Department of Physical Metallurgy, National Center for Metallurgical Research (CENIM-CSIC), Madrid, Spain, ² Department of Mechanical Engineering, The University of Hong Kong, Hong Kong, China	¹ ArcelorMittal Maizieres Research, Maizières-les-Metz, France, ² Aix Marseille Univ, Marseille, France, ² Luxembourg Institute of Science an Technology, Belvaux, Luxembourg
	HIGH TEMPERATURE PRODUCTION OF SUPERPARA- MAGNETIC IRON OXIDE NANOPARTICLES (SPIONS) IN CONTINUOUS FLOW		EFFECT OF THE PRIOR AUSTENITE GRAIN SIZE ON THE STRENGTHENING CONTRIBUTION OF QUENCHING & PARTITIONING MICROCONSTITUENTS	QUANTIFICATION OF THE EFFECT OF HETEROGE- NEOUS CARBON DISTRIBUTION IN PRIOR AUSTENITE IN A LOW ALLOY DP STEEL
19.10	Professor Jesus Santamaria ¹ , Dr Laura Uson, Dr Manuel Arruebo, Dr Victor Sebastian		<u>Dr. Carola Celada-Casero</u> ¹, Prof. Jilt Sietsma¹, Dr. Maria Santofimia¹	<u>Hamidreza Farivar</u> ¹, U. Prahl¹, S. Richter², M. Hans³, W. Bleck¹
	¹ Universidad De Zaragoza, Zaragoza, Spain		*Delft University of Technology, Netherlands	'Steel Institute (IEHM), RWTH Aachen University, Aachen, Germany, ² Central Facility for Electron Microscopy (GFE), RWTH Aachen University, Aachen, Germany, ³ Materials Chemistry (MCh), RWTH Aachen University, Aachen, Germany
				THE GOS-METHOD: AN ALTERNATIVE METHOD FOR THE DETERMINATION OF RECRYSTALLIZATION KINETICS OF DEFORMED MICROSTRUCTURES
19.30				M.Sc. Lena Eisenhut ¹ , Prof. Dr. mont. Christian Motz ¹ , M.Sc. Tim Krämer ² , Dr. Eric Detemple ²
				¹ Saarland University, Chair Of Material Science and Methods, Saarbrücken, Germany, ² AG der Dillinger Hüttenwerke, Dillingen Saar, Germany
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Symposium	B2	B3	В6	B10
Room	Aimilios Riadis Hall/M2	CR I Hall/M2	I-11/M1	Maurice Saltiel Hall II/M2
Session Title	Modeling and Simulation in Light Metals	Silicides	Advanced Composites - Nano Carbon Particles	Corrosion and Fatigue II
Chairperson	Georg Schmitz	S. Milenkovic	Bodo Fiedler	Apostolos Chamos
	HIGHLIGHT THERMODYNAMICS AND PHASE DIAGRAMS FOR TIAL-BASED ALLOYS FROM CALPHAD APPROACH	KEYNOTE/INVITED Nb SILICIDE BASED ALLOYS WITH A BALANCE OF PROPERTIES: ALLOY DESIGN	INVESTIGATION OF THE THERMO-MECHANICAL PROPERTIES, THERMAL DECOMPOSITION AND FLAMMABILITY OF GFRP	CORROSION-INDUCED MECHANICAL PROPERTIES DEGRADATION OF AL-Cu-Li 2198 ALUMINUM ALLOY
17.30	Prof. Dr. Hans Juergen Seifert		Björn Riecken ¹ , Bodo Fiedler ¹	Christina Margarita Charalampidou¹, Professor Stavros Kourkoulis², Alexandra Karanika², Wolfgang Dietzel¹, Carsten Blawert⁴, Volker Heitmann⁴, Assistant Professor Nikolaos Alexopoulos¹
	¹ Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen, Germany	Prof.Panos Tsakiropoulos¹	'Institute Of Polymer Composites. Hamburg University Of Technology. Hamburg. Germany	Department of Financial Engineering, University Of Aegean, Chios, Greece, Department of Mechanics, Laboratory of Testing and Materials, National Technical University of Athens, Athens, Greece, Hellenic Aerospace Industry S.A., Athens, Greece, Institute of Materials Research, Department of Corrosion and Surface Technology, Helmholtz-Zentrum Geesthacht, Germany
	A NEW THERMODYNAMIC DATABASE FOR TI-BASED ALLOYS AND TIAL-BASED MATERIALS		MICROSTRUCTURE AND COMPRESSIVE PROPERTIES OF GRAPHENE-REINFORCED AI MATRIX NANOCOM- POSITE PREPARED BY A POWDER METALLURGY ROUTE	FATIGUE CORROSION OF CEMENTED CARBIDES
17.50	<u>Dr. Hai-Lin Chen</u> ¹, Dr. Yang Yang¹, Dr. Qing Chen¹, Dr. Anders Engström¹	¹ The University Of Sheffield, Department of Materials Science and Engineering, Mappin Street, Sheffield S1 3JD, United Kingdom	<u>Dr. Hamed Asgharzadeh</u> ¹, Mrs. Maryam Sedigh¹	Dr. Eng. Silvia Simison¹, Mr Mauro Arcidiacono¹, Dr Amadeo Sosa¹, Dr. Joan Roa⁴, Dr Emilio Jimenez Pique⁴, Dr Flavio Soldera³, Dr Mohammad Zamanza- de3, Dr José Garcia²
	[†] Thermo-Calc Software AB, Solna, Sweden		¹ University Of Tabriz, Tabriz, Iran	"Universidad De Mar Del Plata/CONICET, Mar Del Plata, Argentina, "Sandvik Coromant R&D, Stock- holm, Sweden, "Saarland University, Saabrücken, Germany, "Escola Enginyeria de Barcelona Est. Dept. Ciència dels Materials e Ing. Metal.lúrgica, Barcelona, Spain
	AN INTEGRATED CRYSTAL PLASTICITY AND PHASE FIELD MODEL TO SIMULATE TWINNING BEHAVIOR IN MAGNESIUM	INTERFACE REACTION BETWEEN NB-SI MELT AND CERAMIC SHELL/CORE DURING ULTRAHIGH TEMPERATURE CASTING	DAMAGE TOLERANCE OF GRAPHENE NANOCOMPOSITES	ON THE MECHANICAL STABILITY OF DIFFERENT OXIDES FORMED ON IRON ALUMINIDES AFTER CYCLIC HIGH TEMPERATURE OXIDATION AT 700°C
18.10	Chuanlai Liu ¹² , Martin Diehl ² , Pratheek Shanthraj ² , Franz Roters ² , Dierk Raabe ² , Stefanie Sandlöbes ³ , Jie Dong ¹	Dr. Yongwang Kang', Prof. Chengbo Xiao', Mr. Ming Li1, Mr. Fengwei Guo', Dr. Meiling Wu'	Mrs Christina Kostagiannakopoulou ¹ , Dr. George Sotiriadis ¹ , Dr. Stavros Tsantzalis ¹ , Prof. Vassilis Kostopoulos ¹	Harald Rojacz ¹ , Lubomir Krabac ¹ , Andreas Sikora ^{2,3} , Dr. Markus Varga ¹ , Dr. Manel Rodriguez Ripoll ¹
	'National Engineering Research Center of Light Alloy Net Forming, Shanghai Jiao Tong University, Shanghai, China: 'Max-Planck-Institut für Eisenforschung, Düsseldorf, Germany, 'Institute of Physical Metallurgy and Metal Physics, RWTH Aachen University, Aachen, Germany	1Beijing Institute of Aeronautical Materials, Beijing, China	¹ Department of Mechanical Engineering and Aeronau- tics. University of Patras. University Campus. GR-26504 Rio Patras, Greece, Patras/University Campus, Greece	¹ ACZT research Gmbh, Wiener Neustadt, Austria, ² Vienna University of Technology, Vienna, Austria, ³ CEST Competence Centre, Wiener Neustadt, Austria
	PHASE-FIELD MODELLING OF THE SOLIDIFICATION OF LIGHT METAL MATRIX COMPOSITES	SOLIDIFICATION PROCESSING OF Nb-SILICIDE BASED ALLOYS	THE NEW APPROACH TO DESIGN OF DIAMOND CON- TAINING COMPOSITE MATERIALS: PHENOMENA OF INTERFACIAL SPONTANEOUS CHEMICAL REACTIONS	HYDROGEN EMBRITTLEMENT OF LASER BEAM MELTING INCONEL 718 UNDER LOW CYCLE FATIGUE LOADING.
18.30	Tamás Pusztai ¹ , László Rátkai ¹ , László Gránásy ¹	<u>Mr Nicolas Tankov</u> ¹ , Dr Panos Tsakiropoulos ¹ , Dr Claire Utton ¹	<u>Dr Daria Sidorenko</u> ¹, Dr Evgeny Levashov¹, Dr Pavel Loginov¹, Natalia Shvyndina¹	Phd Student Simon Puydebois ¹²³ . Materials Engineering PhD Pierre Bernard ¹ , Materials Science PhD Laurent Briottet ² , Professor Xavier Feaugas ³ , Materials Science PhD Abdelali Oudriss ³
	Wigner Research Centre for Physics, Budapest, Hungary	¹ University of Sheffield, Sheffield, United Kingdom	'National University of Science and Technology MISIS, Moscow, Russian Federation	¹ Airbus Safran Launchers (ASL), Forêt de Vernon, F-27200, Vernon, France, ² Univ Grenoble Alpes, CEA, LITEN, DTBH, F-38000 Grenoble, France, ² LoSIE, CNRS UMR 7354, Université de La Rochelle, F-17000, La Rochelle, France
	SIMULATION OF PHASE TRANSFORMATIONS DURING THE HOMOGENIZATION OF A 6082 EXTRUDABLE AL-ALLOY USING COMPUTATIONAL THERMODYNAM- ICS AND KINETICS	MICROSTRUCTURE INVESTIGATION OF NEW Nb-Si ALLOYS		CORROSION BEHAVIOR OF ALUMUNIUM MATRIX SYSTACTIC FOAMS IN SIMULATED SEAWATER
18.50	Professor Greg Haidemenopoulos ¹ . <u>Dr Panagiota Sarafoglou</u> ¹	<u>Mr Virgit MALARD</u> ¹ , Mr Stefan Drawin ¹ , Mrs Anne Denquin ¹ , Mr Alain Couret ²		Mr. Christos Vogiatzis ¹ , Professor Stefanos Skolianos ¹
	'University Of Thessaly, Volos, Greece	¹ ONERA - The French Aerospace Lab, Châtillon, France, ² CEMES, Toulouse, France		¹ Aristotle University of Thessaloniki, Mechanical Engi- neering Department, Physical Metallurgy Laboratory, Thessaloniki, Greece
	MODELING OF THE B TO a PHASE TRANSFORMATION IN MULTICOMPONENT TITANIUM ALLOYS: INFLUENCE OF THE B/B GRAIN BOUNDARIES ON THE KINETICS AND MICROSTRUCTURES	PHASE EQUILIBRIA AND THE DEVELOPMENT OF ALLOYS FOR ULTRA-HIGH TEMPERATURE APPLICATIONS		CORROSION OF AA7075 BULK AND COLD SPRAYED ALUMINUM ALLOY COATINGS IN SALTWATER
19.10	Mrs Sarah Tioual-Demange ¹² , Mr Benoit Appolaire ³ , Mrs Elisabeth Aeby-Gautier ² , Mr Immanuel Freiherr von Thüngen ¹ , Mr Oscar Garcia Beltran ¹	<u>Prof. Panos Tsakiropoulos</u> ¹, Dr Claire Utton¹		Sieglind Ngai ¹² , Prof. Tungwai Ngai ¹ , Dr. Florian Vogel ²³ , William Story ² , Prof. Gregory B. Thompson ² , Prof. Luke N. Brewer ²
	¹ Safran Tech ,Paris Saclay, France, ² Jean Lamour Institute, Nancy, France, ³ LEM Onera/CNRS, Châtillon, France	¹ The University Of Sheffield, Department of Materials Science and Engineering, Mappin Street. Sheffield S1 3JD, United Kingdom		¹ South China University of Technology, Guangzhou, China ² The University of Alabama, Tuscaloosa, United States, ³ Technische Universität Berlin, Berlin, Germany
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Symposium	B11	C1	C7	D1
Room	Maurice Saltiel Hall III/M2	F 319/M1	I-15/M1	Artist Cafe/M1
Session Title	Alloy Development and Advanced Microstructures	Coatings and thin films 6/6 Composite coatings	Steel Production	Catalysis & Nanostructures
Chairperson	Florian Spieckermann	L. Singheiser, A, Cavaleiro	Spyros Papaeftymiou	Lucia Amidani, Oskar Paris
	DESIGN STRATEGIES FOR SELF HEALING OR HEALABLE ALLOYS	EVALUATION OF YOUNG'S MODULUS AT ELEVATED TEMPERATURES OF THERMAL BARRIER COATING BY BENDING RESONANCE METHOD	THE OPTIMIZATION OF AC EAF PROCESS CHARGING HOT METAL FOR SPECIAL STEEL IN HYUNDAI STEEL	HIGHLIGHT INTERMEDIATES OF ELECTROCHEMICAL WATER OXIDATION: HOW THEY COME AND HOW THEY GO
17.30	Cem Tasan¹, Meimei Wang¹, Jiali Zhang¹	Satoru Takahashi', Kazuki Ookubo ¹ , Hiroyuki Waki ² , Masahiko Kato ³ , Syusui Ogawa ⁴ , Furnio Ono ¹	Mr. JongDeok Kim¹, Dr. JongOh Jo¹, Mr. DaeHoon Shin¹, Mr. ChangOh Lee¹, Dr. ChangHyun Wee², Bachelor Kangll Lee², Dr. JaeHwan Ahn1	Braun Artur¹
	1MIT, Cambridge, USA	¹Tokya Metropolitan University, Tokya. Japan. ²Iwate University, Iwate, Japan. ²Hiroshima University, Hiroshima. Japan. ²Japan Fine Ceramics Center. Nagoya. Japan. ²Osaka Science & Technology Center, Osaka, Japan	"Hyundai Steel R&D Center Steelmaking Technology Development Team, 1480 Bukbusaneop-ro, Son- gak-eup, Dangjin-si. South Korea; "Hyundai Steel Special Steel Steelmaking Department, 1480 Bukbusa- neop-ro, Songak-eup, Dangjin-si, South Korea	Empa. Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland
	MICROSTRUCTURE OF INTERMETALLIC PARTICLE STRENGTHENED FULLY FERRITIC AND ADVANCED HIPERFER STEELS	HYBRID NANOCOMPOSITE COATINGS BY AERO- SOL-ASSISTED ATMOSPHERIC COLD PLASMA DEPOSITION. PREPARATION, CHARACTERIZATION AND APPLICATIONS	IDENTIFICATION AND MODELING OF CRUCIAL PROCESS PARAMETERS FOR THE CONTINUOUS IMPROVEMENT OF SPECIAL STEELS AT THE STOMANA PLANT	IN-SITU ULTRA-SMALL-ANGLE X-RAY SCATTERING STUDY ON UNIAXIAL STRETCHING OF PHYSICALLY CROSSLINKED COLLOIDAL CRYSTAL PREPARED BY SILICA NANOPARTICLES GRAFTED BY HYDRO- GEN-BONDING POLYMER
17.50	Jennifer Lopez Barrilao¹, Dr Bernd Kuhn¹, Dr Egbert Wessel¹, Dr Erik Skiera¹, Dr Michal Talik¹	<u>Dr David Ruch</u> ¹	<u>Dr Panagiotis Sismanis</u> ¹, Mrs Marianthi Bouzouni ²³ , Dr Spyros Papaefthymiou³	<u>Dr Ryohei Ishige</u> ¹, Dr Gregory A Williams², Dr Yuji Higaki². Dr Noboru Ohtaʻ, Dr Masugu Satoʻ, Professor Atsushi Takahara², Professor Zhibin Guan+
	¹ Forschungszentrum Jülich GmbH, Jülich, Germany	¹ Luxembourg Institute of Science and Technology, Esch/alzette, Luxembourg	Sidenor Sa, 33, Amaroussiou-halandriou St, Greece, +ELKEME SA, 56th km Athens-Lamia Nat. Road, Greece, *National Technical University of Athens. 9, Her. Polylechniau Str., Greece	Department of Chemical Science And Engineering, Meguro-ku, Ookayama, E4-5, 2-12-1, Japan, Alastitute for Materials Chemistry and Engineering (IMCE), Nishi-ku, MotooZZka, 744, Japan, Department of Chemistry, 1102 Natural Sciences Q, University of California, Irvine, CAP2697, USA, Japan Synchrotron Radiation Research Institute (JASRI/SPring-8), Sayo-gun, Sayo-cho, 679-5198, Japan
	INVESTIGATION OF THE EFFECT OF CHEMICAL COMPOSITION AND STRUCTURE OF THE ANNEALING KINETICS OF COPPER WIRES USED FOR ELECTRICAL PURPOSES	THE GROWTH OF SILVER NANOPARTICLES ON TITANIUM DIOXIDE COATINGS PARTIALLY COVERED BY GRAPHENE SHEETS	THE TECHNOLOGY OF DIRECT BORON MICROALLOY- ING FOR LOW CARBON STEEL	THE EFFECT OF THERMAL TREATMENT ON THE STRESS STATE AND EVOLVING MICROSTRUCTURE OF NANO-MULTILAYERS: AN IN-SITU HIGH TEMPERATURE XRD STUDY
18.10	M.sc. Eng. Małgorzata Zasadzińska¹, Ph.D., D.Sc. Tadeusz Knych¹, Ph.D., D.Sc. Beata Smyrak¹, M.sc. Eng. Bartosz Jurkiewicz¹, M.sc. Eng. Marek Gniełczyk+	MSc Kaja Spilarewicz-Stanek', MSc Joanna Ginter', Dr Aneta Kisielewska', Prof. Ireneusz Piwoński+	<u>Dr Anatoly Babenko¹²</u> , Dr Vladimir Zhuchkov¹², Dr Alexander Sychev¹, Dr Alena Upolovnikova¹	Dr Claudia Cancellieri', Dr Mirco Chiodi', Dr Vicente Araullo-Peters', Dr Frank Moszner', Dr Jolanta Janczak-Rusch', Dr Lars P.H. Jeurgens'
	'AGH - University of Science and Technology, AL Mick- iewicza 30, 30-059 Krakow, Poland , Kraków, Poland	¹ University Of Lodz, Faculty Of Chemistry, Department Of Materials Technology And Chemistry, Lodz, Poland	Institute Of Metallurgy Ural Branch Of The Russian Academy Of Sciences, Ekaterinburg, Russian Federation, 'Ural Federal University named after the first President of Russia B.N. Yeltsin, Ekaterinburg, Russian Federation	'Swiss Federal Laboratories for Materials Science and Technology, Laboratory for Joining Technologies and Corrosion, Überlandstrasse 129, 8600 Dübendorf, Switzerland, Dübendorf, Switzerland
	STRAIN RATE EFFECT ON THE MICROSTRUCTURES OF CONVENTIONAL AND HARMONIC 8 TITANIUM ALLOYS	WATER BORNE POLYURETHANE COMPOSITE FILMS WITH FEW LAYER GRAPHENE	EFFECT OF SLAG COMPOSITION ON THE FORMATION BEHAVIOUR OF OXIDE-SULFIDE COMPLEX INCLU- SIONS IN LADLE METALLURGY	FAST IN SITU NANOTOMOGRAPHY AT ID16B ESRF BEAMLINE: A NEW TOOL FOR DYNAMIC CHARAC- TERIZATION
18.30	<u>David Tingaud</u> ¹ , Hervé Couque ² , Daiki Ueda ³ , Guy Dirras ¹ , Key Ameyama ³	<u>Dr Maria Paiva</u> ¹, Dr. Eunice Cunha¹, Professor Maria Fernanda Proença²	Dr. Jae Hong Shin ¹ . <u>Professor Joo Hyun Park</u> ¹	Dr. Julie Villanova ¹ , Ms. Richi Kumar ¹² , Dr. Rémi Daudin ² , Dr. Pierre Lhuissier ² , Dr. Luc Salvo ² , Dr. David Jauffrès ² , Dr. Christophe Martin ² , Dr. Gema Martinez-Criado ³ , Dr. Rémi Tucculou ¹
	¹ Université Paris 13, Sorbonne Paris Cité, LSPM-CNRS, Villetaneuse, France, ² Nexter-Munitions, Bourges, France, ³ Dpt of Mechanical Engineering, Ritsumeikan University, Japan	¹ University of Minho, Institute for Polymers and Composites/i3N, Guimaräes, Portugal, ² University of Minho, Department of Chemistry, Braga, Portugal	[†] Department of Materials Engineering, Hanyang University, Ansan, South Korea	'ESRF- The European Synchrotron, France, 2Univ. Grenoble Alpes-CMRs-SIMAP, France, 33 Instituto de Ciencia de Materiales de Madrid, Consejo Superior de Investigaciones Clentificas, Spain
	SUPERPLASTIC BEHAVIORS OF SEVERELY DEFORMED AND NATURALLY AGED Zn-AL ALLOYS AT ROOM AND ELEVATED TEMPERATURES	INTRINSIC HYDROPHOBICITY OF THIN FILMS OF CERAMICS BASED ON LOW-ELECTRONEGATIVITY METALS PREPARED BY MAGNETRON SPUTTERING	THE OPTIMIZATION OF STEELMAKING CONDITIONS TO REDUCE MACRO INCLUSION FOR SPECIAL STEEL	DIRECT VIEW ON SELF HEALING IN Fe-Au ALLOYS By Synchrotron X-ray Nano-Tomography
18.50	Muhammet Demirtas ¹ , Megumi Kawasaki ² , Harun Yanar ³ , Gençağa Pürçek ^{3,4}	<u>Simon Kos</u> ¹, Sergei Zenkin¹, Jindrich Musil¹	Mr. Geunho Park ¹ , Mr. Chulho Chang ¹ , Mr. Haegon Kim ¹ , Mr Joongbum Lee ¹ , Dr. Jaehwan Ahn ¹	Mr. Haixing Fang', Mr. Casper Versteylen', Dr. Shasha Zhang', Dr. Yang Yang ² , Dr. Peter Cloetens ² , Dr. Dominique Ngan-Tillard', Prof.dr. Ekkes Brück', <u>Prof.</u> dr. Sybrand van der Zwaag', Dr. Miels van Dijk'
	Bayburt University, Turkey, ² Hanyang University, Seoul, Korea, ³ Karadeniz Technical University, Trabzon, ⁴ Giresun University, Giresun, Turkey	¹ University Of West Bohemia, Plzen, Czech Republic	'Hyundai Steel Company. Dangjin-Si. South Korea	"Delft University Of Technology, Delft, Netherlands, "European Synchrotron Radiation Facility, Grenoble, France
		HIGH-TEMPERATURE HE-B-SI-C-N FILMS WITH CONTROLLED ELECTRICAL CONDUCTIVITY AND OPTICAL TRANSPARENCY PREPARED BY PULSED MAGNETRON SPUTTERING	INFLUENCE OF THERMAL HISTORY ON HOT DUCTILITY OF CONTINUOUSLY CAST LOW ALLOYED C1-Mo-STEELS	
19.10		Veronika Šímová †, Jaroslav Vlček†, Šárka Zuzjaková†, Radomír Čerstvý [†] , Jiří Houška+	Dipl.ing. Christian Hoflehner', Dr. Coline Beal', Univ Prof. DiplIng. Dr. techn. Christof Sommitsch ¹ , Dl. Dr. Jakob Six ² , Dl. Dr. Sergiu Ilie ²	
		¹ Department of Physics and NTIS - European Centre of Excellence, University of West Bohemia, Plzeň, Czech Republic	¹ Technical University of Graz , Graz , Austria, ² voestal- pine AG, Linz, Austria	
		DROPWISE CONDENSATION ON TEXTURED METALLIC SUBSTRATES THROUGH ROBUST HYDROPHOBIC COATINGS	AN APPROACH TO SIMULATE TEMPERATURE OSCILLATIONS DURING CONTINUOUS CASTING OF MICRO-ALLOYED STEEL	
19.30		<u>Dr. Chander Shekhar Sharma</u> ¹, Dr. Athanasios Milionis¹, Prof. Dimos Poulikakos	<u>Pierre Wiehoff</u> ¹ , Harald Radlwimmer ¹ , Sergiu Ilie ² , Guillermo Requena ³ , Ernst Kozeschnik ¹	
		¹ ETH Zurich, Zurich, Switzerland	'TU Vienna, Vienna, Austria, ² voestalpine Stahl GmbH, Linz, Austria, ² German Aerospace Center (DLR), Cologne, Germany	

Symposium	D2	D4 D9		
Room	Museum Hall /M2	Library Hall/M2	Maurice Saltiel Hall I/M2	
Session Title	In situ characterization II	Modelling through the length scales	Nuclear Fuel (I)	
Chairperson	Eva Olsson	Alexey Romanov & Christophe Pinna	M. Cologna	
	KEYNOTE/INVITED ATOMIC DEFCTS IN OXIDES STUDIED BY TRANSMISSION ELECTRON MICROSCOPY	HIGHLIGHT INTERNAL STRESSES AND STRUCTURE EVOLUTION IN SMALL PARTICLES DURING ANNEALING	KEYNOTE/INVITED SIMULATION OF NUCLEAR MATERIALS BEHAVIOUR UNDER ACCIDENTAL AND EXTREME CONDITIONS	
17.30		Dr. Maksim Dorogov ¹ , Ms. Anastasia Priezzheva ¹ , Dr. Leonid Dorogin ¹² , Dr., Prof. Anatoly Vikarchuk ¹ , Dr., Prof. Mikhail Gufkin ¹² ⁴ , Dr., Prof. Anna Kolesnikova ¹²⁴ , Dr., Prof. Alexey Romanov ¹²⁵ , Dr., Prof. Elias Aifantis ¹²³		
	Dr Martin Albrecht ¹ . Dr Toni Markurt ¹ , Robert Schewski ¹ , Dr Zbigniew Galazka ¹	¹ Togliatti Slate University, Togliatti, Russian Federation. ² ITMO University, St. Petersburg, Russian Federation, ³ Aristotle University of Thessaloniki, School of Engineering, Thessaloniki, Greece, ⁴ Institute of Problems of Mechanical Engineering, St. Petersburg, Russian Federation, ³ Offe Physical Technical Institute, Russia Academy of Sciences, St. Petersburg, Russian Federation	Ph.D. Dario Manara ¹	
	'Leibniz-Institut fuer Kristallzuechtung, Berlin, Germany	A NEW INTERFACE PARAMETER FOR CAPTURING GRAIN BOUNDARY STRENGTH	'European Commission, JRC, Karlsruhe, Germany	
17.50		<u>Dr Katerina Aifantis¹</u>		
17.30		'Univ Of Arizona, United States		
	THE TEMPERATURE-DEPENDENCY OF THE ZnO BAND GAP STUDIED BY STEM-EELS	COMPUTATIONAL ANALYSIS OF DEFORMATION PROCESSES IN ADDITIVE MANUFACTURED STEEL SPECIMENS	KEYNOTE/INVITED EXPERIMENTAL NUCLEAR FUEL IRRADIATIONS IN THE HIGH FLUX	
18.10	Cecilie Granerød¹, Lasse Vines¹, Klaus Magnus Johansen¹, Øystein Prytz¹	Dr. Olga Zinovieva ¹ , Dr. Aleksandr Zinoviev ¹ , Prof. DrIng, Vasily Ploshikhin ¹ , Prof. Dr. Sci. Ruslan Balokhonov ^{2,3} , Prof. Dr. Sci. Varvara Romanova ²	REACTOR WITHIN THE EERA-JPNM FRAMEWORK	
	¹ University of Oslo, Oslo, Norway	'Airbus Endowed Chair for Integrative Simulation and Engineering of Materials and Processes (ISEMP), University of Bremen, Bremen, Germany, 'Institute of Strength Physics and Materials Science, Siberian Branch of the Russian Academy of Sciences, Tomsk, Russia, 'National Research Tomsk Polytechnic University, Tomsk, Russia	Mr. Sander Van Til ¹ , Mr. Ralph Hania ¹ , Mr. Raymond Okel ¹ , Mr. Arjan de Koning ¹ , Mr. Elio d'Agata ² , Mr. Daniel Freis ³ , Mme Marjorie Bertolus ⁴ , Mme Marie-France Barthe ⁵	
	HIGHLIGHT TEM STUDIES ON NANO-FILAMENT EVOLUTION IN SWITCHING PRO- CESSES IN H102-BASED RESISTIVE RANDOM ACCESS MEMORY	COMPLEX ESTIMATION OF STRENGTH PROPERTIES OF THE FUNCTION- AL MATERIALS	'Nuclear Research and consultancy Group (NRG), Petten, Netherlands, 'European Commission - Joint Research Centre (JRC), Petten, Netherlands, 'European Commission - Joint Research Centre (JRC), Karlsruhe, Germany, 'Commissariat à l'Energie Atomique (CEA), Saint-Paul-lez-Durance, France, 5Centre national de la recherche scientifique (CNRS), Orleans, France	
18.30	Dr. Chao Li', Dr. Bin Gao ² , Dr. Yuan Yao ¹ , Xiangxiang Guan ¹ , Dr. Xi Shen ¹ , Prof. Yanguo Wang ¹ , Dr. Peng Huang ² , Prof. Lifeng Liu ² , Prof. Xiaoyan Liu ² , Prof. Junjie Li ¹ , Prof. Changzhi Gu ¹ , Prof. Jinfeng Kang ² , <u>Prof. Richeng Yu¹</u>	Prof Mikhail Gitman ¹ . Prof Valeriy Stolbov ¹		
	'Institute Of Physics, Chinese Academy Of Sciences, Beijing, China, ² Institute of Microelectronics, Peking University, Beijing, China	'Perm National Research Polytechnic University, Perm, Russian Federation		
	ELUCIDATION OF CONDUCTING FILAMENT FORMATION IN Hf02 BASED RERAM DEVICES BY IN-SITU TEM	PRECURSOR ACTIVITY IN SLIDING INTERFACES	DAMAGE CHARACTERIZATION OF DISPLACEMENT CASCADES IN (U,Pu)02 FUELS BY MD SIMULATIONS	
18.50	Gemma Martín ¹ , Mireia B. González ² , Francesca Campabadal ² , Sònia Estradé ¹ , Francesca Peiró ¹ , Albert Cornet ¹	Dr Markos Avlonitis ¹ , Dr George Efremidis ² , <u>Dr Avraam Konstantinidis</u> ³	Hector E. Balboa ¹ , Laurent Van Brutzel ¹	
	¹ LENS-MIND-IN2UB, Departament d'Enginyeries: Electrònica, Universitat de Barcelona, Marti i Franqués 1, 08028 Barcelona, Spain, ² Institut de Microelectrònica de Barcelona, IMB-CNM (CSIC), Campus UAB, 08193 Bellaterra, Spain	¹ Department of Informatics, Ionian University, Corfu, Greece, ² Department of Civil Engineering, University of Thessaly, Volos, Greece, ³ Department of Civil Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece	¹ Den-Service de la Corrosion et du Comportement des Matériaux dans leur Environnement (SCCME), CEA, Université Paris-Saclay, Giff-Sur-Yvette, France	
	IN SITU OBSERVATION AND 3D ATOMIC-SCALE QUANTIFICATION OF CONDUCTIVE FILAMENT IN A RESISTIVE SWITCHING DEVICE	VIBRATIONS OF A PIEZOELECTRIC NANOBEAM WITH SURFACE EFFECTS	ATHERMAL LATTICE REPAIR IN ACTINIDE DIOXIDES UNDER INTENSE ALPHA-DECAY-INDUCED DAMAGE	
19.10	Doctor Byeong-Gyu Chae', Professor Jae-Bok Seol², Doctor Jeong-Hwan Song¹, Doctor Kyung-Jun Baek¹, Professor Hyunsang Hwang¹, Professor Chan-Gyung Park¹²	Professor Kaiyu Xu ¹ , <u>PhD Yanmei Yue</u> ²	Professor Yehuda Eyal¹	
	Postech, Pohang, South Korea, *National Institute for Nanomaterials Technology (NINT), Pohang, South Korea	"Shanghai University, Shanghai, China, ² Shijiazhuang Tiedao University, Shijiazhuang, China	'Technion - Israel Institute of Technology, Haifa, Israel	
			INFLUENCE OF MICROSTRUCTURE ON U02 CREEP BEHAVIOR: AN EBSD STUDY OF GRAIN FRAGMENTATION	
19.30			Mariem Ben Saada 12, Xavière ILTIS1, Nathalie GEY ² , Audrey MIARD1, Philip GARCIA1, Benoit BEAUSIR2, Nabila MALOUFF	
			CEA, DEN, DEC, Cadarache, 13108 Saint-Paul-Lez-Durance, France, ² Laboratoire d'Etude des Microstructures et de Mécanique des Matériaux (LEM3), UMR CNRS 7239, Université de Lorraine, 54045 Metz Cedex 1, France	



Symposium	A1 2017	E2	E3
Room	CR II Hall/M2	CR III Hall/M2	Rehearsal Room 5.17/M1
Session Title	Hydrogen storage and production	Supercapacities / Electron microscopy	Photovoltaics-Silicon
Chairperson	Maria Luisa Di Vona, Bogdan Kuchta, Ioannis Kallistis, Toshiyuki Mori	T. Djenizian	Patricia Carvalho
	AN INNOVATIVE PLASMA MULTI-LAYERED DEVICE FOR HYDROGEN PRODUCTION	PERFORMANCE OF CARBON-BASED SUPERCAPACITORS WITH INERT AND REDOX ELECTROLYTES	HIGHLIGHT KYROPOULOS TECHNIQUE, A TOP SEEDING PROCESS TO GROW UNCON- FINED CONTROLLED SQUARE INGOTS OF MONOCRYSTALLINE SILICON
17.30	Phd Student Arnaud Joët KINFACK LEOGA!, PhD Student Loraine YOUSSEF!, DR Stéphanie ROUALDES!, DR Vincent ROUESSAC!, PR André AYRAL!	<u>Pietro Stait</u> ¹ , Alessandra Carbone ¹ , Irene Gatto ¹ , Antonino Brigandi ¹ , Francesco Lufrano ¹	Dr Ahmed Nouri ¹ , Dr Guy Chichignoud ¹ , Pr Yves Delannoy ¹ , <u>Pr Kader Zaïdat</u> ¹
	¹Institut Européen des Membranes (IEM, UMR5635) - ENSCM, UM, CNRS, Université de Montpellier, CC047, 2 Place Eugène Bataillon, 34095, Montpellier, France	1CNR-ITAE Istituto di Tecnologie Avanzate per l'Energia "Nicola Giordano", Messina, Italy	¹ Univ. Grenoble Alpes, CNRS, Grenoble INP*, SIMaP, Grenoble, France
	INFLUENCE OF LONG PERIOD STACKING ORDERED (LPSO) PHASE FRACTION ON HYDROGEN STORAGE IN EXTRUDED MAGNESIUM RARE-EARTH ALLOYS	GRAPHENE NANOPLATELET BASED ELECTRODE MATERIALS FOR ENERGY STORAGE APPLICATIONS	3D NANOHOLES IN SI SOLAR CELLS EMITTERS FOR LIGHT HARVESTING
17.50	Kyle Nicholson ¹ , Prof. Rimma Lapovok ¹ , Dr. Chunjie Xu ² , Prof. Eugen Rabkin ³ , Prof. Peter Hodgson ⁴	Aris Amplianitis', Athanasios Masouras ³ , Dr Katerina Kouravelou ² , Zampia Kalogrīdi ² , Dr. Athanasios Baltopoulos ² , Dr. Antonios Vavoulio- tis ¹² , Dr Stavros Tsantzalis ³ , Prof. Vassilios Kostopoulos ³ , Dr. Ugo Lafont ⁴	Dr. Rosaria A. Puglisi¹, Dr. Antonino La Magna¹
	Institute for Frontier Materials, Deakin University, Geelong, Australia, ² School of Materials Science & Engineering, Xi'an University of Technology, Xi'an, China, 'Department of Materials Science and Engineering, Technion Israel Institute of Technology, Haifa, Israel, 'Office of DVC (Research), Deakin University, Geelong, Australia	¹ PLEIONE ENERGY S.A., Althens, Greece, ² ADAMANT COMPOSITES Ltd, Patras, Greece, ³ APPLIED MECHANICS & VIBRATIONS LABORATORY, Dept. Mechanical and Aeronautics Engineering, Polytechnical School, University of Patras, Patras, Greece, ⁶ EUROPEAN SPACE AGENCY (ESA), Noordwijk, Netherlands	¹ Consiglio Nazionale Delle Ricerche - IMM, Catania, Italy
	A NOVEL STRATEGY BASED ON VERY-HIGH ENERGY PLASMA DEPOSITION FOR FABRICATION OF HIGHLY PEC ACTIVE THIN HEMATITE PHOTOANODES	AN ORIGINAL MATERIAL ENGINEERING STRATEGY FOR THE SYNTHE- SIS OF SUPERCAPACITIVE MANGANESE COBALT OXIDE MATERIALS WITH ENHANCED PERFORMANCES	SI POWDER BASED STRUCTURES FOR LOW-COST PV: HOT PRESSING SINTERED OR THERMAL SPRAY PROCESSED STRUCTURES RECRYSTALLIZED BY LASER TREATMENTS
18.10	Dr. Stepan Kment ¹ , Dr. Zdenek Hubicka ² , Dr. Jiri Tucek ¹ , Prof. Patrik Schmuki ¹³ , Prof. Radek Zboril ¹	Doctorate Céline Tang ¹²³ , Dr Domitille Giaume ²³ , Pr Liliane Guerlou-Demourgues ¹³	Dr. Guobin Jia ¹ , Dr. Michalis Vardavoulias ² , Dr. Amin Azar ³ , Dr. Gaute Stok- kan ⁴ , Dr. Wilhelm Dall ⁴ , Dr. Martin Syvertsen ⁴ , Dr. Jonathan Plentz ¹ , Dr. Gudrun Andra ¹ , Dr Thomas Kaden ⁵ , <u>Dr. Alexander Ulyashin³</u>
	'Regional Centre of Advanced Technologies and Materials, Faculty of Science, Palacky University Olomouc, Olomouc, Czech Republic, 'Department of Low Temperature Plasma, Institute of Physics of the ASCR, Prague, Czech Republic, 'Department of Materials Science and Engineering, University of Erlangen. Auremberg, Erlangen, Germany	ICMCB, Bordeaux, France, ² IRCP, Paris, France, ³ RS2E, Paris, France	¹ PHT, Jena, Germany, ² Pyrogenesis, Lavrion, Greece, ² SINTEF, Oslo, Norway, ⁴ SINTEF, Trondheim, Norway, ² THM, Freiberg, Germany
	MICROSTRUCTURAL AND HYDROGEN STORAGE PROPERTIES IN HEAVILY DEFORMED ZK60 + 2.5 wt.% MM ALLOY PROCESSED BY ACCUMULATIVE ROLL BONDING	LARGE-AREA, ALL-SOLID AND FLEXIBLE ELECTRIC DOUBLE LAYER CAPACITORS BASED ON CNT FIBER ELECTRODES AND POLYMER ELECTROLYTES.	HIGHLIGHT FIXED CHARGE DIELECTRICS FOR SURFACE PASSIVATION OF SOLAR CELLS
18.30	Dr. E.P. Silva ¹² , Dr. D.R. Leiva ² , Dr. H. C. Pinto ³ , Dr. W.J. Botta ² , <u>Dr. Ricardo Floriano</u> ⁷	<u>Evgeny Senokos</u> ¹, Victor Reguero¹, Laura Cabana¹, Jesus Palma², Rebeca Marcilla², Juan Jose Vilatela¹	Professor / Center Director Erik Stensrud Marstein ¹ , Ms Therese Stokkan ^{1,2} , Ms Heidi Tønnesson ^{1,3} , Dr Halvard Haug ¹
	'Faculty of Applied Sciences, State University of Campinas, Limeira, Brazil, 'Department of Materials Engineering, Federal Uni- versity of São Carlos, São Carlos, Brazil, 'Department of Materials Engineering, University of São Paulo, São Carlos, Brazil	¹IMDEA Materials Institute, Getafe, Spain, ²IMDEA Energy Institute, Móstoles, Spain	Ilnstitute for Energy Technology (IFE). Kjeller. Norway. 2.Justervesenet. Kjeller. Norway. 3NMBU (Norwegian University of Life Sciences). Aas. Norway
	Zno nanowires covered with 2-d transition metal di-chal- cogenides for solar-mediated photoelectrochemical water splitting	BEYOND ELECTROCHEMICAL ANALYSIS: MULTI-SCALE MICROSCOPY OF LIBS IN 2D, 3D, AND 4D	CVD SILICON FILM GROWTH ON DUST SUBSTRATE: THE IMPACT OF THE SUBSTRATE GRANULOMETRY
18.50	PhD candidate Aikaterini Govatsi¹, PhD candidate Aspasia Antonelou¹, Dr Stylianos Neophytides¹, Dr Spyros Yannopoulos¹	<u>Jeff Gelb</u> ¹ , Stefanie Freitag ² , Dr. Leah Lavery ¹ , Luke Hunter ¹ , Dr. Lars-Oliver Kautschor ³ , Dr. Arno Merkle ¹	Ms. Filipe Serra¹, Dr. José Silva¹, Dr. António Vallêra², Prof. João Serra ¹
	'Foundation for Research and Technology Hellas — Institute of Chemical Engineering Sciences (FORTH/ICE-HT), P.O. Box 1414, GR-26504, Rio-Patras, Greece, Patras, Greece	¹ Carl Zeiss Microscopy, Pleasantan. United States, ² Carl Zeiss Microscopy, Munich, Germany, ³ Carl Zeiss Microscopy, Oberkochen, Germany	'Instituto Dom Luiz - Faculdade De Cièncias Universidade Lisboa, Lisboa (lisbon, Portugal), Portugal, ² SDSIL, Lisboa (Lisbon, Portugal), Portugal
	SPUTTER-DEPOSITED NANOSTRUCTURED METAL-OXIDE FILMS FOR HYDROGEN GAS SENSING	3D MICROSTRUCTURE OF BATTERY ELECTRODES ANALYZED BY 3D IMAGING	RECENT ADVANCES ON SOLAR CELL PERFORMANCE FROM STRESS INDUCED EXFOLIATED THIN SILICON FOILS
19.10	Dr. Stanislav Haviar', Markéta Fialová¹, Šárka Batková¹, Dr. Jiří Čapek¹, Radomír Čerstvý¹, Tomáš Duchoñ²	<u>Eric Maire</u> ', Victor Vanpeene ¹ , Aurelien Etiemble ¹ , Lionel Roue ² , Bernard Lestriez ² , Thierry Douillard ¹	Dr Pierre Bellanger ² , Dr. Abdelilah Slaoui ² , Dr Albert Minj ² , Prof JM Serra ¹
	¹ University of West Bohemia, Pilsen, Czech Republic , ² Charles University, Prague, Czech Republic	¹ Insa Lyon - Mateis Lab, Villeurbanne, France, ² INRS , Varennes, Canada, ³ IMN, Nantes, France	University of Lisbon, Lisbon, Portugal, ² U. Strasbourg, ICube – Laboratory of Engineering, Computer Science and Imagery, Strasbourg, France
			CRYSTALLIZATION OF THIN SI LAYERS DEPOSITED ON LOW-COST SI SUBSTRATES BY E-BEAM
19.30			Dr. Alexander Ulyashin ¹ , Dr. Guobin Jia ² , Dr. Amin Azarl , PhD Runar Dahl-Hansen ¹ , Dr. Marit Stange ¹ , Dr. Tor Olav Sunde ¹ , Dr. Jonathan Plentz ² , Dr. Gudrun Andrae ² , Dr. Martin Syvertsen ² , Dr. Fritz Falk2, Dr. Safae Aazou ⁴ , PhD Zakaria Langhfou ⁴ , Prof. Zouheir Sekkat ⁴
			¹ Sintef, Oslo, Norway, ² IPHT, Jena, Germany, ² SINTEF, Trondheim, Norway, ⁴ Mascir, Rabat, Morocco



Symposium	E4	F1 H1	
Room	Conference Room 2/M1	3-20/M1	I –16/M1
Session Title	Plasma Facing Materials	Ceramics: degradable and inert. Magnesium alloys	Modeling of Next Generation Magnetic Materials
Chairperson	Thierry Angot	Daniel Arcos	Scott McCall
	HIGHLIGHT EVOLUTION OF MICROSTRUCTURE OF TUNGSTEN UNDER IRRADIATION WITH TUNGSTEN IONS	MONITORING CALCIUM PHOSPHATES DURING RESORPTION: AN ORIGINAL METHODOLOGY	KEYNOTE/INVITED BUILDING MATERIALS SCIENCE FOR HIGH-PERFORMANCE PERMANENT MAGNETS ON ELEMENTS STRATEGY
17.30	Dr Emmanuel Autissier ¹ , Dr M-F Marie-France Barthe ¹ , Dr Pierre Desgardin ¹ , Dr Cécile Genevois-Mazellier ¹ , Dr Brigitte Decamps ² , Dr Robin Schaublin ³ , Yves Serruys ⁴	Marta Gallo ¹ , Solène Tadier ¹ , <u>Sylvain Meille</u> ¹ , Jérôme Chevalier ¹	
	¹CEMHTI CNRS, Orléans, France, ²CSNSM, Orsay, France, ³ETH, Zürich , Switzerland, ⁴SRMP/ CEA, Gif/yvette, France	1Université Lyon, INSA Lyon, MATEIS, UMR CNRS 5510, Villeurbanne, France	Dr. Satoshi Hirosawa¹
	SPATIAL DISTRIBUTIONS OF DEFECTS IN THE PRIMARY RADIATION DAMAGE IN W	HOLLOW MESOPOROUS BIOACTIVE GLASS NANOPARTICLES FOR DUAL RELEASE OF BIOLOGICALLY ACTIVE IONS AND BIOMOLECULES	
17.50	Andrea Sand ^{1,2} , Daniel Mason ¹ , Xiaoou Yi ³ , Kai Nordlund ² , Sergei Dudarev ¹	Kai Zheng¹, Dr Preethi Balasubramanian¹, Francesca Ciraldo¹, Dr Georgia Charalambopoulou², Dr Theodore Steriotis2, Dr Aldo Boccaccini¹	¹ National Institute for Materials Science, Tsukuba, Japan
	CCFE, UK, ² University of Helsinki, Finland, ² School of Materials Science and Engineering, University of Science and Technology Beijing, China	'Institute of Biomaterials, University of Erlangen-Nuremberg, Erlangen, Germany, 'Institute of Nanoscience and Nanotechnology, National Center for Scientific Research "Demokritos", Greece	
	TUNGSTEN OXIDE THIN FILMS: STRUCTURAL PROPERTIES AND PLASMA INTERACTION	IN-VITRO EVALUATION OF BIOACTIVE AND BIODEGRADATION PROPERTIES OF MESOPOROUS ZnO ARCHITECTURES	HIGHLIGHT CALCULATION OF THE MAGNETIC PROPERTIES OF Fe-BASED ALLOYS
18.10	Dr Céline Martin¹, Dr Younes Addab¹, Dr Hussein Hijazi¹, Dr M.E. Bannister², Dr Fred Meyer², Dr Cédric Pardanaud¹, Dr Martiane Cabié³, Dr Madaline Rusu⁴, Prof. Pascale Roubin¹	Dr. Marco Laurenti ¹ , Prof. Chiara Vitale Brovarone ¹ , Prof. Valentina Cauda ¹	<u>Dr. Hiroshi Ohtani</u> ¹ , Dr. Masanori Enoki ¹
	¹ Aix-Marseille Univ., CNRS, PIIM, Marseille, France, ² Physics Division, Oak Ridge National Laboratory, Oak Ridge, USA, ³ Aix-Marseille Univ.; CP2M, Marseille, France, ⁴ National Institute of R&D for Optoelectronics INOE 2000, Ufov, Romania	¹ Department of Applied Science and Technology, Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129, Torino, Italy	¹IMRAM, Tohoku University, Sendai, Japan
	ADVANCED X-RAY IMAGING METHODS FOR THE CHARACTERIZATION OF THE STRUCTURAL INTEGRITY AND OPERATION OF THE PLASMA FACING COMPONENTS	STRENGTHENING OF ZIRCONIA SCAFFOLDS WITH INFILTRATED 58S BIOACTIVE GLASS	HIGHLIGHT SEARCH FOR NEW RARE EARTH-BASED ALLOYS
18.30	PhD Ion Tiseanu¹, PhD Andrei Galatanu², PhD Teddy Craciunescu¹, MSc Cosmin Dobrea¹, MSc Mihail Lungu¹, MSc Adrian Sima¹	Dr. Joana Mesquita-guimaraes ^{1,2} , Lizandra Ramos², Dr. Júlio Souza ^{2,1} , Prof Bruno Henriques², Prof Márcio Fredet², Prof Aldo Boccaccini+, Prof Filipe Silva ¹	Dr. Patrice Turchi ¹ , Dr. Aurélien Perron ¹ , Dr. Per Söderlind ¹ , Dr. Alexander Landa ¹ , Dr. Vincenzo Lordi ¹
	'National Institute for Lasers. Plasma and Radiation Physics (INFLPR), Bucharest-Magurele, Romania. ² National Institute of Materials Physics, Bucharest-Magurele, Romania	'1Center for Microelectromechanical Systems (CMEMS-UMinho), University of Minho, Guimarães, Portugal, '2Department of Me- chanical Engineering (EMC), Federal University of Santa Catarina (UFSC), Florianápolis, Brazil, '3	'Lawrence Livermore National Laboratory, Livermore, United States
	RETENTION AND RELEASE OF HYDROGEN ISOTOPES IN TUNGSTEN PLASMA FACING COMPONENTS: THE ROLE OF GRAIN BOUNDARIES AND THE NATIVE OXIDE LAYER FROM A JOINT EXPERIMENT-SIMULATION INTEGRATED APPROACH	EFFECT OF MG ALLOYS ON ATDC5-CELLS CHONDROGENIC DIFFERENTIATION	THERMODYNAMICS OF THE SmCo5 MAGNET DOPED WITH Fe AND Ni: AB INITIO STUDY
18.50	E.A. Hodille ¹ , F. Ghiorghiu ² , Y. Addab ² , A. Založnik ² , M. Minissale ²⁴ , Z. Piazza ^{2,5} , C. Martin ² , T. Angot ² , L. Gallais ⁴ , MF. Barthe ⁶ , C.S. Becquart ² , S. Markeli ³ , J. Mougenot ² , C. Grisolia ¹ , R. Bisson ²	<u>Dr Bérengère Luthringer</u> '. Adela Helvia Adela Martinez-Sanchez ⁱ , Prof. Regine Willumeit-Römer ¹	<u>Dr. Alexander Landa</u> ¹ , Dr. Per Söderlind ¹ , Dr. Patrice Turchi ¹
	'CEA, IRFM, Saint-Paul-lez-Durance, France, 'Aix-Marseille Univ, CNRS, PlM, Marseille, France, 'Joře Stefan Institut, Ljubljana, Slovenia, 'Aix-Marseille Univ, CNRS, Centrale Marseille, Institut Fresnel, Marseille, France, 'Univ. Lille, CNRS, INRA, ENSCL, UMR 8207, UMET, Unité Matériaux et Transformations, Litle, France, 'CNRS, CEMHTI UPR 3079, Université d'Orléans, Orléans, France, 'SSPM, CNRS, Université Paris 13, Sorbonne Paris Cité, Villetaneuse, France	'Helmholtz-Zentrum Geesthacht, Geesthacht, Germany	'Lawrence Livermore National Laboratory, Livermore, United States
	SPATIAL DEPENDENCE OF TRANSMUTATION RATES IN A FUSION ENVIRONMENT: THE ROLE OF WATER-COOLING IN ENHANCED TRANSMUTATION RATES IN TUNGSTEN	COMPUTATIONAL MODEL FOR THE DESIGN OF ORDERED SCAFFOLDS VARYING STRUCTURAL PARAMETERS	HIGHLIGHT MAXIMUM LIKELIHOOD REALIZATION FOR THE IMAGE OF MAGNETIC DOMAIN STRUCTURES IN RMC METHOD WITH THE REPLICA EXCHANGE SCHEME
19.10	Mark Gilbert ¹ , Jean-Christophe Sublet ¹ , Sergei Dudarev ¹	PhD. Student - Mechanical and Mechatronics Engineering Viviana Marcela Posada Perez', Mechanical Engineering student Maria Camila Velasquez Orozco', Mechanical Engineering student Juan Andres Cardona Usuga', Associate Professor Patricia Fernandez-Morales', Associate Professor Juan Fernando Ramirez Patiño'	<u>Dr Chiharu Mitsumata</u> ¹, Dr Maki Tokii², Dr Kanta Ono³
	¹CCFE, Abingdon, United Kingdom	'Universidad Nacional De Colombia, Medellin, Colombia, 'Universidad Pontificia Bolivariana, Medellin, Colombia	National Institute For Materials, Tsukuba, Japan. University of Tsukuba, Tsukuba, Japan. High Energy Accelerator Research Organization (KEK), Tsukuba, Japan
19.30			



Symposium	A1 2017	А7	B1	B2
Room	M0YSA Hall/M2	I-08/M1	Conference Room 3/M1	Aimilios Riadis Hall/M2
Session Title	Bio-nano Interface III	Energy related Materials	Advanced High Strength Steels IV	Magnesium
Chairperson	Aikaterini Dendrinou-Samara	Peter Schaaf	Wieslaw Swiatnicki	Norbert Hort
	HIGHLIGHT MULTIMODAL METAL OXIDE NANOPARTICLES AND THEIR BIO-INTERACTIONS	KEYNOTE/INVITED SYNTHESIS AND CHARACTERIZATION OF Li2sn03 ELONGATED MICRO- AND NANOSTRUCTURES	INVESTIGATION OF STRETCH-FLANGEABILITY OF 0&P PROCESSED MEDIUM MN STEEL BY HOLE EXPANSION TEST	KEYNOTE/INVITED MICROSTRUCTURE AND TEXTURE DESIGN IN COST-EFFECTIVE MAGNESIUM SHEETS FOR AUTOMOTIVE APPLICATION
11.00	Magali Lavenas ¹ , Dr Marina Simon ² , Dr Quentin Le Trequesser ¹ , Dr Guillaume Devès ² , Dr Philippe Barbe- ret ² , Dr Herve Seznec ² . <u>Dr Marie-Helene Delville</u> 1		<u>Mr. Jihoon Kim</u> ¹, Dr. Eunjung Seo¹, Dr. Singon Kang¹, Dr. Bruno C. De Cooman¹	
	CNRS, Université de Bordeaux, ICMCB, UPR9048., Pessac, France, 2CNRS Univ. Bordeaux, CENBG, UMR 5797, Gradignan, France	<u>David Maestre</u> ', Miguel García-Tecedor', Ana Cremades', Javier Piqueras'	¹ Graduate Institute Of Ferrous Technology, Pohang, South Korea	Prof. Dr. Karl Ulrich Kainer ¹ , Dr. Jan Bohlen ¹ , Dr. Sangbong Yi ¹ , Dr. Dietmar Letzig ¹
	HIGHLIGHT WHEN COLLOIDAL NANOCRYSTAL CLUSTERS ENABLE MULTIMODAL DIAGNOSIS AND THERAPY		MICROSTRUCTURAL EVOLUTION DURING HIGH- TEMPERATURE PARTITIONING OF A MEDIUM-Mn Q&P STEEL	
11.20	<u>Dr Alexandros Lappas</u> ¹	¹ Dpto. Física de Materiales, Facultad de Cc. Físicas, Universidad Complutense de Madrid, Madrid, Spain	S Ayenampudi ¹ , C Celada-Casero ¹ , J Sietsma ¹ , M Santofimia ¹	'Helmholtz-Zentrum Geesthacht. Geesthacht, Germany
	¹ Institute of Electronic Structure and Laser, Foundation for Research and Technology - Hellas, Vassilika Vouton, 71110 Heraklion, Greece		¹ Department of Materials Science and Engineering, Delft University of Technology, Mekelweg ² , 2628 CD, Delft. The Netherlands	
	HIGHLIGHT COLLOIDAL NANOPARTICLES FOR MRI AND HYPERTHERMIA TREATMENT	LARGE AREA NANOSTRUCTURED MATERIALS FOR RENEWABLE ENERGY APPLICATIONS	EFFECT OF STRESS ON QUENCHED AND PARTITIONING PROCESS EVALUATED BY DEFORMATION DILATOMETER	HIGHLIGHT THE CONTINUED QUEST FOR LOW-TEMPERATURE FORMABILITY IN Mg ALLOYS: HISTORICAL DEVELOPMENTS AND FUTURE OPPORTUNITIES
11.40	Prof Maria Casula¹, Dr Claudio Sangregorio², Prof Alessandro Lascialfari³, Dr Paolo Arosio³, Prof. Pasquina Marzola⁴, Dr. Giamaica Conti⁴	Panos Datskos¹, Georgios Polizos¹, Barton Smith¹, Fred List¹	<u>Dr. Javier Hidalgo</u> ¹ , Dr. Maria Jesus Santofimia ¹	Prof. Suveen Mathaudhu¹
	¹ University Of Cagliari, Cagliari, ITALY, ² ICCOM CNR, Firenze, ITALY, ³ University of Milano, Milano, ITALY, ⁴ University of Verona, Verona, ITALY	¹ Oak Ridge National Laboratory, Oak Ridge, United States	'TU Delft, Delft, Netherlands	¹ University Of California, Riverside, Riverside, United States
	MAGNETIC FERRITE NANOPARTICLES AND COLLOIDAL SUPERPARTICLES AS PLATFORMS FOR THERANOSTICS	CHARACTERIZATION OF OPV THIN FILMS AT THE NA- NOSCALE WITH BACKSCATTERED ELECTRON (BSE) IMAGING IN LOW VOLTAGE SCANNING ELECTRON MICROSCOPY (SEM)	EFFECT OF CARBIDE SIZE ON PHASE TRANSFORMATIONS IN ULTRA – FAST HEAT TREATMENT OF LOW ALLOYED STEEL	DEVELOPMENT OF TEXTURE CONTROL PROCESS FOR IMPROVING FORMABILITY OF MAGNESIUM ALLOY SHEET
12.00	Prof Catherine Dendrinou-Samara	Ms. Aránzazu Garitagoitia Cid ¹² , Ms. Mona Sedighi ¹ , Dr. Markus Loeffler ¹ , Prof. Dr. Ehrenfried Zschech ¹²	DiplEng. Marianthi Bouzouni ^{1,2} Dr Ing. Spyros Papaefthymiou ¹	Dr. Se-jong Kim¹, Dr. Daeyong Kim¹, Dr. Jinwoo Lee¹, Dr. Young-Seon Lee¹
	'Chemistry Department, Aristotle University Thessaloniki, Thessaloniki, Greece	¹ Dresden Center for Nanoanalysis (DCN), Technical University Dresden, Dresden, Germany, ² Fraunhofer Institute for Ceramic Technologies and Systems - Materials Diagnostics (IKTS-MD), Dresden, Germany	'National Technical University Of Athens, 9, Her. Poly- techniou str., Zografos, Greece, ZELKEME S.A., 56th km Athens – Lamia National Road Oinofyta, Greece	'Korea Institute Of Materials Science, Changwon, South Korea
	SYNTHESIS OF SPHERICAL AND FACETED T-Fe203 NANOPARTICLES AND THEIR ENCAPSULATION IN MESOPOROUS SIO2 NANO SHELLS	HIGHLIGHT GREEN CO2 PROCESSING FOR MANIPULATING STRUCTURES AND ELECTRICAL PROPERTIES OF ORGANIC PHOTOVOLTAIC DEVICES	PRECIPITATION HARDENING STEEL FOR ELEVATED TEMPERATURE APPLICATIONS	EFFECT OF PROCESS PARAMETERS ON RECRYS- TALLIZATION AND TEXTURE EVOLUTION OF COLD- ROLLED Mg-Al-Zn-Ca-Y ALLOY SHEETS
12.20	Mr. Shabin Mohammed ¹ , Dr. Georgia Basina* ¹ , Dr. Balasubramanian Vaithilingam ² , Mr. Samuel Stephen ³ , Dr. Yasser Al Wahedi* ¹	Doctor Levent Sendogdular ¹ , Doctor Naisheng Jiang ² , Doctor Maya Endoh ² , Professor Tadanori Koga ² , As- sistant Professor Bulent Akgun ² , Doctor Sushii Satija ⁴ , Doctor Masafumi Fukuto5, Doctor Chang-Yong Nam ⁵	Group Technical Expert Jan-Erik Andersson ¹	Ms. Su Mi Jo ¹ , Mr. Yohan Go ¹ , Mr. Jong Il Kim ² , Mr. Bong Sun You ^{1,2} , Mr. Young Min Kim ^{1,3}
	¹ Department of Chemical Engineering, The Petroleum Institute, P.O. Box 2533, UAE, Abu Dhobi, United Arab Emirates, ² Stakreer Research Center, Abu Dhobi Dil Refining Company (TAKREER), P.O. Box. 3593, UAE, Abu Dhobi, United Arab Emirates, ² ADNOC Research & Innovation Center, Petroleum Institute, PO Box 2533, UAE, Abu Dhobi, United Arab Emirates	¹ Erciyes University, Kayseri, Turkey, ² Stony Brook University, Stony Brook, USA, ³ Bagazici University, Istanbul, Turkey, ⁴ NIST, Gaithersburg, USA, 5BNL, Upton, USA	¹Ovako Sweden AB, Hafors, Sweden	¹ Korea University of Science and Technology, Daejeon, South Korea, ² Chungnam National University, Daejeon, South Korea, ³ Korea Institute of Materials Science, Changwon, South Korea
			EFFECT OF RUTHENIUM ADDITIONS ON THE CORRO- SION AND MECHANICAL PROPERTIES OF THE WELD METAL OF 316L STAINLESS STEELS.	EFFECT OF RECRYSTALLIZATION NUCLEATION SITES ON TEXTURE WEAKENING IN A MAGNESIUM ALLOY
12.40			Miss Bridget Zuma ¹² Dr J. W. van der Merwe ¹²³	Dr. Dikai Guan ¹ , Prof. Mark Rainforth ¹
			"University Of The Witwaterand, Johannesburg, South Africa, 'DST-NRF Centre of Excellence in Strong Mate- rials, Johannesburg, South Africa, 'Africa Materials Science and Engineering Network, Johannesburg, South Africa	¹ University Of Sheffield, Sheffield, United Kingdom



Symposium	B3	В6	B8	B10
Room	CR I Hall/M2	I-11/M1	Conference Room 1/M1	Maurice Saltiel Hall II/M2
Session Title	Polycrystalline Ni Base Superalloys I	Advanced Composites	Phase Stability	Corrosion & Wear I
Chairperson	G. Eggeler	Aravind Dasari	Uwe Glatzel	Wolfram Fürbeth
	COMPUTATIONAL DESIGN OF NI-BASED SUPERALLOYS TAKING INTO CONSIDERATION THE MICROSTRUCTURE EVOLUTION	A RESEARCH ON ALUMINA-HYDROXYAPATITE- BIOACTIVE GLASS COMPOSITE STRUCTURES	KEYNOTE/INVITED THERMODYNAMIC STABILITY OF THE SOLID SOLUTION IN THE Cr-Mn-Fe-Co-Ni SYSTEM	IMPACT OF THE ALLOYING ELEMENTS COPPER, MANGANESE, MAGNESIUM, AND SILICON ON THE CORROSION BEHAVIOR OF ALUMINUM MATERIALS IN ETHANOL BLENDED GASOLINE FUELS
11.00	Mr. Hao Yu¹. Dr. Wei Xu². Dr. Srbrand van der Zwaag³	PhD Candidate Azade Yelten ¹ , Dr. Suat Yilmaz ¹		DIPLING. RÜDIGER REITZ!, DrIng. Georg Andersohn!, Prof. DrIng. Matthias Oechsner!
	'Novel Aerospace Materials group. Faculty of Aerospace Engineering. Delft University Of Technology. Delft, the Netherlands. 'State Key Laboratory of Rolling and Automation. Northeastern University. Shen Yang. China. 'Novel Aerospace Materials group. Faculty of Aerospace Engineering. Delft University Of Technology. Delft. the Netherlands	1Istanbul University, Department of Metallurgical and Materials Engineering, 34320 Avcilar, Istanbul, Turkey	Dr Mathilde Laurent-brocq', Guillaume Bracq', Dr Loïc Perrière', Rémy Pirès', Pr Ivan Guillot', Dr Jean-Marc Joubert'	'Technische Universität Darmstadt, Institute for Materials Technology (IfW), Darmstadt, Germany
	THE DEVELOPMENT OF NICKEL-BASED SUPER- ALLOYS STRENGTHENED BY GAMMA PRIME AND GAMMA DOUBLE PRIME PRECIPITATES	NUMERICAL INVESTIGATION OF THE GRAIN GROWTH IN POLYCRYSTALLINE FIBERS AND GRAIN BOUND- ARY DIFFUSION	Institut de Chimie et des Matériaux de Paris Est, UMR 7182, CNRS — Université Paris-Est, Thiais, France	CORROSION POTENTIAL CORRELATIONS WITH IRREGULAR PLASTIC DEFORMATION
11.20	Paul Mignanelli ¹ , Nicholas Jones ¹ , Ed Pickering ¹² , Olivier Messé ¹ , Catherine Rae ¹ , Mark Hardy ³ , Howard Stone ¹	Julia Kundin¹		Associate Professor Ahmet Yilmaz ¹
	'University of Cambridge. Cambridge. UK. 'University of Manchester, Manchester. UK. 'Rolls-Royce plc. PO BOX 31, Derby, UK	¹ Ruhr University Bochum, Germany		¹Yalova University, Istanbul. Turkey
	STRENGTHENING OF Y PRECIPITATES BY Y PRECIPITATES IN Ni-AI-TI SUPERALLOYS	INSTABILITY OF MRE FILM—SUBSTRATE BLOCK UNDER MAGNETOMECHANICAL LOADINGS	A "HIGH ENTROPY" ALLOY DATABASE TCHEA2 AND ITS APPLICATION IN ALLOY DESIGN	CHARACTERIZATION OF PLASMA CARBURIZED LAY- ERS FORMED ON AUSTENITIC STAINLESS STEEL
11.40	Markus Kolb ¹ , Vivien Gumbert ¹ , Dr. Steffen Neumeier ¹ , Prof. Mathias Göken	Erato Psarra¹, Konstantinos Danas¹, Laurence Bodelot¹	Dr. Hai-Lin Chen ¹	Eng. Ana Gasco¹, Dr. Grégory Marcos², Dr. Prof. Euge- nia Dalibon¹, Dr. Aurore Andrieux², Dr. Eng. Lisandro Escalada3, Dr. Cedric Noel², Dr. Lic. Sonia Brühl¹, Dr. Eng. Silvia Simison², UL-Prof. Thierry Czerwiec²
	'University Erlangen-Nürnberg, Erlangen, Germany	1Ecole Polytechnique, Paris, France	[†] Thermo-Calc Software AB, Solna, Sweden	'Universidad Tecnológica Nacional, Concepción del Uruguay, Argentina, 'Institut Jean Lamour, Nancy, France, 'Instituto de Investigación en Ciencia y Tecnología de Materiales, Mar del Plata , Argentina
	MICROSTRUCTURE — PROPERTY STUDY OF NICOCRAL-X (X = Hf, Si, Ta, Y) ALLOYS	LUMINESCENT MECHANOCHROMIC AND THERMO- CHROMIC MATERIALS BASED ON COPPER IODIDE COMPOUNDS	COMBINING THERMODYNAMIC MODELING AND 3D PRINTING OF ELEMENTAL POWDER BLENDS FOR HIGH-THROUGHPUT INVESTIGATION OF HIGH-ENTROPY ALLOYS — TOWARDS RAPID ALLOY SCREENING AND DESIGN	EXAMINATION OF THERMO-PHYSICAL PROPERTIES AND STRAIN RATE BEHAVIOUR OF HONEYCOMB ALLOYS TO STUDY THE EFFECT OF RUB IN IN OUTER AIR SEALS
12.00	Dr Eleftheria Karagianni ¹ , Professor Of Metallurgy and Posco Chair Panagiotis (Panos) Tsakiropoulos ¹	<u>Dr Sandrine PERRUCHAS</u> ^{1,2} , Brendan HUITOREL ¹ , Dr Thierry GACOIN ¹	Dr. Christian Haase¹, Florian Tang². Markus B. Wilms3, Dr. Andreas Weisheit³, Dr. Bengt Hallstedt²	Sonun Ulan kyzy¹, Oliver Munz², Tim Fischer3, Prof. DrIng. Uwe Glatzel¹
	1The University Of Sheffield, Department of Materials Science and Engineering, Mappin Street, Sheffield S1 3JD, United Kingdom	¹Institut des Matériaux Jean Rouxel (IMN), Université de Nantes - CNRS, Nantes, France, ²Laboratoire PMC, Ecole Polytechnique-CNRS, Palaiseau, France	Department of Ferrous Metallurgy, RWTH Aachen University, Aachen, Germany, Institute for Materials Applications in Mechanical Engineering, RWTH Aachen University, Aachen, Germany, Fraunhofer Institute for Laser Technology ILT, Aachen, Germany	Metals and Alloys, University of Bayreuth, 95447 Bayreuth, Germany, 'Institute of Thermal Turboma- chinery, Karlsruhe Institute of Technology, '76131 Karlsruhe, Germany, 'Institute of Materials Science and Mechanics of Materials, Technical University of Munich, 85748 Garching b. München, Germany
	MICROSTRUCTURAL CHARACTERIZATION OF PLAS- MA NITRIDED Y' AND Y' PHASES IN NICKEL-BASED SUPERALLOYS	MICROSTRUCTURE AND MECHANICAL PROPERTIES OF INFILTRATED TIB ² -STEEL COMPOSITES.	THE ROLE OF COMPOSITION ON THE CONSTITUENT PHASES OF (ALXTY)CFFCONI BASED QUINARY AND SENARY COMPOSITIONALLY COMPLEX ALLOYS	CORROSION BEHAVIOR OF AL-Cu (2024) FRICTION STIR WELDED JOINTS
12.20	Fadella Larek', Jean-Baptiste Dubois ¹ , Luc Pichon ¹ , Sébastien Chollet, Jonathan Cormier ² , Patrick Villechaise ² , Frédéric Danoix ³ , Raphaele Danoix ³	Miss Helen Dilman ¹ , Mr. Or Rahamim ¹ , Prof. Shmuel Hayun ¹ , Prof. Naum Frage ¹	Dr Nick Jones ¹ , Dr Paul Mignanelli ¹ , Dr Kathy Christo- fidou ¹ , Mr Antti Reponen ¹ , Dr Ed Pickering ² , Dr Howard Stone ¹	Ms. Theano Examilioti ¹ , Mr. Dimitris Karanikolas ¹ , Na Li ² , Wenya Li ² , Prof. Stavros Kourkoulis ³ , Prof. Nikolaos Alexopoulos ³
	Ilnstitut P' - UPR 3346/ University of Poitiers. France, 2Institut P' - UPR CNRS 3346/ ISAE-ENSMA, France, 3Groupe de Physique des Matériaux - UMR 6634 CNRS/ University of Rouen, France	1Ben-gurion University of the Negev, Beer-sheva. Israel	'University of Cambridge. Cambridge, UK, ² University of Manchester, Manchester, UK	"University Of Aegean, Chios, Greece, "State Key Laboratory of Solidification Processing, Xi an, China, "National Technical University of Athens, Athens, Greece
	PECULIARITIES OF STRUCTURE FORMATION IN NICKEL SUPERALLOYS AT THE RECOVERY POWDER LASER CLADDING		PHASE COEXISTENCE AND CORROSION RESISTANCE OF Cr_xalfenico High Entropy Alloys: experi- mental and Theoretical Study	ON THE TRIBOCORROSION RESPONSES OF THREE STAINLESS STEELS
	Ph.D. Olga Klimova-korsmik ¹ , D.Sc., Prof. Gleb Turichin ² , PhD. Dtudent Rudolf Korsmik ¹ , Ph.D. Evgeniy Zemlyakov ¹		Dr Cieslak Jakub¹, Pof. Janusz Tobola¹, Dr Katarzyna Berent³, Dr Monique Calvo-Dahlborg³, Prof. Ulf Dahlborg³, Dr J Cornide3, Dr S Mehraban⁴	Ms Fatma Ben Saada ¹ , Ms Mariem Ben Saada ² , Prof Pierre Ponthiaux ² , Prof Khaled Elleuch ¹
12.40	Peter The Great Saint-petersburg Polytechnic University, Saint-petersburg, Russian Federation, ² Saint-Petersburg State Marine Technical University, Saint-petersburg, Russian Federation		'AGH University of Science and Technology, Faculty of Physics and Applied Computer Science, Kraków, al. Mickiewicza 30, Poland, 'AGH University of Science and Technology, Academic Centre for Materials and Nanotechnology, Kraków, al. Mickiewicza 30, Poland, 'GPM-UMR6634-CNRS, University of Rouen Normandie, BP12, 76801 Saint-Etienne-du-Rouvray, France, 'College of Engineering, Swansea University Bay Campus, Swansea, SA1 800, UK	'National Engineering School of Sfax, Sfax, Tunisia, ² CEA, Cadarache, France, ² Ecole Centrale Paris, Paris, France



Symposium	B11	C1	C4	C10
Room	Maurice Saltiel Hall III/M2	Friends of Music Hall/M1	Conference Room 4/M1	F319/M1
Session Title	Hard Metals and Metal Matrix Composites	C1.2: Coatings deposition routes and novel characterization techniques 1/5 Deposition routes I	Additive Manufacturing of metals 1	New SPD methods and new application areas of SPD
Chairperson	C. Tasan	R. Cremer, M. Bender	Livio Battezzati	S. Suwas and T. Grosdidier
	KEYNOTE/INVITED DEFECT DENSITY AND FATIGUE BEHAVIOUR OF WC-Co HARD METALS AS A FUNCTION OF THEIR MICROSTRUCTURE	KEYNOTE/INVITED ENABLING MOBILITY FOR TOMORROW WITH SURFACE TECHNOLOGY	FATIGUE BEHAVIOR OF ADDITIVELY MANUFACTURED 316L (1.4404) WITH REGARD TO THE INFLUENCE OF THE BUILDING DIRECTION Dipling. Bastian Blinn ¹ , DrIng. Marcus Klein ¹ , Prof.	KEYNOTE/INVITED SEVERE PLASTIC DEFORMATION OF OXIDES
11.00	Dr Thomas Klünsner ¹ , Florian Zielbauer ¹ , Christian	DrIng. Nazlim Bagcivan'.	DrIng. Tilmann Beck ¹ , M.Sc. Mathias Burkhart ² , Prof. DrIng. Jan C. Aurich ² "Institute of Materials Science and Engineering,	Dr. Kaveh Edalati ¹ , Dr. Hadi Razavi-Khosroshahi ² ,
	Gettinger ¹ , Dr Stefan Marsoner ¹ , Prof Tanja Lube ² , Prof. Reinhard Pippan ³	Dr. Yashar Musayev ² , Dr. Edgar Schulz	University of Kaiserslautern, Kaiserslautern, Germany, ² Institute for Manufacturing Technology and Production Systems, University of Kaiserslautern, Kaiserslautern, Germany	Prof. Masayoshi Fuji², Prof. Zenji Horita¹
	Materials Center Leoben Forschung Gmbh (MCL) Leoben, Austria, "Montanuniversität Leoben, Institut für Struktur- und Funktionskeramik (ISFK), Leoben, Austria, "Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria	Director Cooting Center, Competence Center Surface Technology, Schaeffler Technologies AG & Co. KG, Schaeffler, Germany, 'Schaeffler Technologies AG & Co. KG. Industriestraße 1-3, Herzogenaurach, Germany	DIRECT METAL PRINTING (DMP) OF THE MARTENSITIC PRECIPITATION HARDENED STAINLESS STEEL 17-4 PH	'Kyushu University, Fukuoka, Japan, 'Nagoya Institute of Technology, Nagoya, Japan
11.20			<u>Ir. Karen Vloebergh</u> ¹	
			¹ 3d Systems Leuven, Leuven, Belgium	
	EFFECT OF TEMPERATURE, LOADING FREQUENCY AND THE MICROSTRUCTURE ON THE VISCOELASTIC BEHAV- IOR OF A NOVEL ALUMINUM METAL MATRIX COMPOSITE	CONTROLLED REACTIVE HIPIMS OF THERMO- CHROMIC VO2 FILMS AT A LOW DEPOSITION TEMPERATURE (300 °C)	STUDY OF THE PORE FORMATION ON STAINLESS STEEL BY SELECTIVE LASER MELTING MANUFAC- TURING PROCESS	MICROSTRUCTURE, MECHANICAL PROPERTIES AND ELECTRICAL CONDUCTIVITY OF THE AL ALLOY, SUBJECTED TO THE NOVEL SPD METHOD OF HIGH PRESSURE TORSION EXTRUSION
11.40	<u>Dr. Jose I. Rojas</u> ¹. Prof. Subbarao Bathula Venkata Siva². Prof. Kanai Lal Sahoo³, Prof. Daniel Crespo⁴	<u>David Kolenatý</u> ¹, Jaroslav Vlček¹, Tomáš Kozák¹, Jiří Houška¹, Radomír Čerstvý¹	Valérie Gunenthiram ¹ , Patrice Peyre ¹ , Matthieu Schneider ¹ , Morgan Dal ¹ , Frédéric Coste ¹ , Rémy Fabrro ¹	<u>Dr. Yulia Ivanisenko¹</u> , Dr. Roman Kulagin¹, Aleksandr Sirotin², Dr. Maxim Murashkin².³
	Department of Physics — Division of Aerospace Engineering, Universitat Politècnica de Catalunya, Cas- telidefels, Spain, 'Department of Mechanical Engineering, Narasaraopeta Engineering College, Narasaraopet, India, 'Zounci of Scientific and Indiatrial Research (ISRI)- National Metallurgical Laboratory, Jamshedpur, India, 'Department of Physics, Universitat Politècnica de Catalunya, Castell- defels, Spain	¹ Department of Physics and NTIS - European Centre of Excellence, University of West Bohemia, Plzeń, Czech Republic	PIMM Laboratory, UMR 8006 Arts et Métiers-CNRS- CNAM, 151 Bd de l'Hôpital, 75013 Paris, France	Institute of Manotechnology, Karlsruhe Institute for Technology, Karlsruhe, Germany, ² Institute for Physics of Advanced Materials, Ufa State Aviation Technical University, Ufa. Russia. ³ Laboratory for Mechanics of Bulk Nanomaterials, Saint Petersburg State University, Saint Petersburg, Russia
	MICROSTRUCTURAL STRENGTHENING OF AL-BASED COMPOSITES BY REACTION BETWEEN MATRIX AND REINFORCEMENT	PHASE FORMATION AND OXIDATION BEHAVIOUR OF CATHODIC ARC EVAPORATED Al1-x-yCrxFEY AND Al1-x-yCrxFey06 Thin Films	SPACE FLEXIBLE COMPONENTS: IMPROVEMENT OF FATIGUE PROPERTIES OF SLM AGE HARDENABLE STAINLESS STEEL BY FINE MICROSTRUCTURE CONTROLLING	TWO NEW PROCESSES ON SHEET SPD
12.00	Mr. Rub Nawaz Shahid ¹² , Dr. Fahad Ali ³ , Prof. Dr. Jürgen Eckert ^{4,5} , Dr. Sergio Scudino ¹	Valentin Dalbauer ¹ , Alexander Kirnbauer ¹ , Dr. Jürgen Ramm ² , Dr. Szilard Kolozsvári ² , Dr. Christian-Martin Koller ^{1,4} , Prof. Paul-Heinz Mayrhofer ^{1,4}	<u>Dr Massoud Dadras</u> ', Dr Olha Sereda', Dr Kaushik Valdeeswaran', Mr Herve saudan', Mr Lionel Kliener ¹	Dr. Roxane Massion ¹ , Dr. Jean Jacques FUNDEN- BERGER ² , Dr. Cai CHEN ³ , Dr. Yajun ZHAO ¹ , Viet Q. VU ¹ , Pr. Laszlo TOTH ¹ , Pr. Yan BEYGELZIMER ³ , Dr. Roman KULAGIN ²
	'Institute for Complex Materials, IFW Dresden, Dresden, Germany, 'Faculty of Mechanical Science and Engineering, I'U Dresden, Dresden, Germany, 'Paksitan Institute of Engineering and Applied Sciences (PIEAS), Islamabad, Pakistan, 'Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria, 'Eppartment Materials Physics, Montanuniversität Leoben, Leoben, Austria	¹ TU Wien CDL-AOS, Institute of Materials Science and Technology, Wien, Austria, ² Oerlikon Balzers, Oerlikon Surface Solutions AG, Balzers, Liechtenstein, ² Plansee Composite Materials GmbH, Lechbruck am See. Germany, ⁴ TU Wien, Institute of Materials Science and Technology, Wien, Austria	¹ Csem, Material Science, Neuchatel, Switzerland	'Lem3 Université De Lorraine, Metz, France, ² Karlsruhe Institute of Technology, Karlsruhe, Germany, ² National Academy of Sciences of Ukraine, Kiev, Ukraine
	OPTIMIZATION OF THE SPACIAL DISTRIBUTION OF THE CNTs IN A Cu/CNT COMPOSITE PROCESSED BY LIQUID METALLURGY	A COMPARABLE STUDY OF THERMOCHROMIC VO2 FILMS GROWN BY SPUTTERING AND HYDROTHER- MAL SYNTHESIS TECHNIQUES	INFLUENCE OF PROCESS PARAMETERS ON FINAL 316L STAINLESS STEEL PROPERTIES MANUFAC- TURED BY SELECTIVE LASER MELTING (SLM)	INFLUENCE OF HIGH PRESSURE TORSION ON THE GROWTH OF TIO2 NANOTUBES ON PURE TITANIUM
12.20	Sana ELMAANA ^{1,2} , XAVIER SAUVAGE ¹ , NICOLAS MASQUELIER ² , ALAIN GUILLET ¹	PhD Candidate Emmanouil Gagaoudakis ¹ . ² . Dr Vasilios Binas ¹²⁴ , Mrs Leila Zouridi ¹³ , Mrs Olga Markaki ¹² , Dr Elias Aperathitis ¹ , Proffessor George Kiriakidis ¹²⁴	Aziz Chniouel ¹ , Dr Fernando Lomello ¹ , Dr Pierre- François Giroux ² , Dr Pascal Aubry ¹ , Dr Hicham Maskrot ¹ , Dr Fanny Balbaud ¹	Dr Nan Hu ¹ , <u>Dr Nong Gao</u> ¹ , Dr Ying Chen ² . Professor Marco Starink ¹
	"Normandie Univ., INSA Rouen, UNIROUEN, CNRS, Groupe de Physique des Matériaux (GPM), Rouen, France, "NEXANS, Lens, France	Institute of Electronic Structure and Laser, Foundation for Research and Technology Hellas, Heraklion/Crete, Greece, University of Crete/Physics Department, Heraklion/Crete, Greece, University of Crete/Chemistry Department, Heraklion/Crete, Greece, "Crete Center for Quantum Complexity and Manotechnology, Department of Physics, University of Crete, Heraklion/Crete, Greece	"Den – Service d'Etudes Analytiques et de Réactivité des Surfaces (SEARS), CEA. Université Paris-Saclay, Gif-sur-yvette, France. 'Den – Service de Recherches Merallurgiques Appliquées (SRMA), CEA. Université Paris-Saclay, Gif-sur-Yvette, France	'University Of Southampton. Southampton, United Kingdom, 'Xiamen University of Technology, Xiamen, China
	EVALUATION OF TENSILE PROPERTIES OF PM AL COMPOSITES BY SMALL PUNCH TESTING	CATHODIC ARC SPUTTERING OF LOWER TITANIUM OXIDES	EFFECT OF ARGON AND NITROGEN ATMOSPHERES ON THE PROPERTIES OF 316L STAINLESS STEEL PARTS BUILT BY LASER SINTERING.	
12.40	Dr. Mario Moreno ^{1,2} , Dr. Martin Balog ³ , Dr. Peter Krizik ³	<u>Dr. Petr Shvets</u> ', Dr. Alexander Goikhman ¹ , Mrs. Ksenia Maksimova ¹	Camille Pauzon ^{1,2} , Prof. Eduard Hryha ¹ , PhD Pierre Forêt ² , Prof. Lars Nyborg ¹	
	¹ Centro Atómico Bariloche, Bariloche, Argentina, ² CONICET, Bariloche, Argentina, ³ Institute of Mate- rials and Machine Mechanics, Bratislava, Slovakia	¹ Baltic Federal University, Kaliningrad, Russian Federation	¹ Chalmers University Of Technology, Göteborg, Sweden, ² Linde Gas AG, Unterschleissheim, Germany	
		NITROGEN IONIC IMPLANTATION INTO NIOBIUM FOR TECHNOLOGICAL APPLICATIONS		
13.00		<u>Dr. Rogerio Oliveira¹</u> , Dr. Odylio Aguiar¹, Dr. Aline Oliveira², MsC Lilian Hoshida¹, Dr. Graziela Savonov¹		
		¹ INPE, SAO JOSE DOS CAMPOS, Brazil, ² UNIFESP, SAO JOSE DOS CAMPOS, Brazil		



Symposium	D1	D2	D3	D4
Room	Artist Café /M1	Museum Hall /M2	I-15/M1	Library Hall/M2
Session Title	Tomography	Advanced modeling by simulation & experiment	Electronic properties and energetic materials	Session 7 - Micro/nano-mechanics of damage I
Chairperson	Peter D. Lee and Ragnvald Mathiesen	Slawomir Kret	Jean-Paul Itié, Ioannis Arvanitidis	Eric Le Bourhis
	KEYNOTE/INVITED DIFFRACTION, PHASE AND ATTENUATION IMAGING FOR DUCTILE DAMAGE	KEYNOTE/INVITED PROBING COMPLEX MATERIALS ONE ATOM AT A TIME USING A COMBINATION OF THEORY AND MICROSCOPY	KEYNOTE/INVITED EVIDENCE OF A NEW ENERGY SCALE FOR SUPERCONDUCTIVITY IN H3S	HYDROGEN ENHANCED CRACKING STUDIES ON Fe-3WT.%SI SINGLE AND BI-CRYSTAL MICRO CANTILEVERS
11.00				Tarlan Hajilou', Yun Dengʻ, Dr. Nousha Kheradmandʻ, Dr. Vigdis Olden², Prof. Roy Johnsenʻ, Prof. Afrooz Barnoushʻ
	Eric Maire ¹ , Sylvain Dancette ¹ , Christophe Le Bourlot ¹	Professor Sokrates Pantelides ¹	Dr Pascale Roy ¹ , Dr Francesco Capitani ¹ , Mr Benjamin Langerome ¹ , Dr Jean-Blaise Brubach ¹ , Dr Aleksander Drozdov ² , Pr Mikhail Eremets ² , Pr Elizabeth Nicol ² , Pr Jules Carbotte ⁴ , Pr Thomas Timusk ^{4,5}	Department of Mechanical and Industrial Engineering, Norwegian University of Science and Technology, Trondheim, Norway, ² SINTEF Materials and Chemistry, Trondheim, Norway
				AB INITIO STUDY OF HYDROGEN EMBRITTLEMENT IN Fe: GRAIN BOUNDARY DECOHESION
11.20	¹ Insa Lyon - Mateis Lab, Villeurbanne, France	[†] Department of Physics and Astronomy, Vanderbilt University, Nashville, United States	¹ Synchrotron Soleil. Saint-Aubin, France, ² Bio- geochemistry Department, Max Planck Institute for Chemistry, Mainz, Germany, ³ Department of Physics, University of Guelph, Guelph, Canada, ⁴ The Canadian Institute for Advanced Research, Toronto, Canada, ³ Department of Physics and Astronomy, McMaster	Dr. I.J.T. Jensen', T. Hajilo', Dr. N. Kheramand', Prof. A. Barnoush', Prof. Z. Zhang', Dr. V. Olden', Prof. O.M. Løvvik ¹
			University, Hamilton, Canada	'SINTEF Materials and Chemistry, Oslo, Norway, 'Norwegian University of Science and Technology, Trondheim, Norway, 'SINTEF Materials and Chemistry, Trondheim, Norway
	HIGHER-ORDER ITERATIVE RECONSTRUCTION OF IN SITU DENDRITIC GROWTH	COMBINED EELS/DFT CHARACTERIZATION OF THE SURFACE FUNCTIONALIZATION OF Ti ₃ C ₂ 2D-SHEETS: FROM LOCAL COORDINATION TO OPTICAL PROPERTIES	HIGHLIGHT PRESSURE EFFECT ON THE CHARGE DENSITY WAVE INSTABILITY IN THE CUPRATE SUPERCONDUCTORS	HYDROGEN EMBRITTLEMENT IN STRUCTURAL STEEL Coarse-grained heat affected zone — influ- ence of varying the stress concentration experiments and modelling
11.40	<u>Dr. Daniil Kazantsev</u> ¹ , Dr. Enyu Guo ¹ , Prof. Peter Lee ¹	Dr Damien Magné ¹ , Dr Vincent Mauchamp ¹ , Dr Matthieu Bugnet ^{2,3} , Dr Stéphane Célérier ⁴ , Dr Patrick Chartier ¹ , Pr Gianluigi Botton ² , Pr Thierry Cabioc'h ¹	Dr Sofia-Michaela Souliou ¹ , Dr Hlynur Gretarsson ² , Dr Gaston Garbarino ¹ , Hun-ho Kim ² , Juan Porras ² , Dr Alexei Bosak ¹ , Prof Bernhard Keimer ² , Prof Mathieu Le Tacon ³	<u>Dr. Antonio Alvaro</u> ¹ , Dr. Vigdis Olden ¹ , Vidar Osen ¹ , Bård Nyhus ¹
	The University Of Manchester, Research Complex at Harwell, Didcot, United Kingdom	Institut Pprime - UPR3346 - CNRS- Politiers University - ISAE ENSMA, Futuroscope Chasseneuil, France, ² Department of Materials Science and Engineering, McMaster University, Hamilton, Canada, ² Laboratoire MATEIS, UMR 5510 CNRS - Université de Lyon - INSA Lyon, Lyon, France, Ainstitut de Chimie des Milieux et Matériaux de Poitiers, UMR 7285, Université de Poitiers, Politiers, France	'European Synchrotron Radiation Facility, Greno- ble, France, 'Max-Planck-Institut für Festkörper- forschung, Stuttgart, Germany, 'Karlsruhe Institute of Technology, Institut fur Festkorperphysik, Karlsruhe, Germany	'SINTEF Materials and Chemistry, Trondheim, Norway
	SOLIDIFICATION IN 4D: FROM DENDRITES TO EUTECTICS	HIGHLIGHT ATOMIC CHARACTERISATION AND MODELLING OF HALFMETAL/SEMICONDUCTOR INTERFACES	POLYMERIC NITROGEN-LIKE COMPOUNDS: A PROMISING ROUTE TOWARDS NOVEL HIGH ENERGY DENSITY MATERIALS	CAST IRON AND MICRO CRACKS
12.00	Professor Ashwin Shahani ² , Dr. Xianghui Xiao ³ , Professor Peter Voorhees ¹	Dr Vlado Lazarov ¹ , Dr Demie Kepaptsoglou ² , Mr Zlat- ko Nedelkoski ¹ , Dr Balati Kuerbanjiang ¹ , Dr Quentin Ramasse ² , Mr Arsham Ghasemi ¹ , Dr Leonardo Lari ³ , Prof Kohei Hamaya ⁴	Mr Dominique Laniel ¹ , Dr Weck Gunnar ¹ , Dr Paul Loubeyre ¹	Mr. Mattias Lundberg¹, Mr. Jonas Saarimäki¹, Ph. D. Mattias Calmunger¹, Professor Johan Moverare¹
	Northwestern University, Evanston, United States, ² University of Michigan, Ann Arbor, United States, ³ Argonne National Laboratory, Argonne, United States	'University Of York, York, United Kingdom, 'SuperSTEM Laboratory, Warrington, United Kingdom, 'York JEOL Nanocentre, York, United Kingdom, 'Osaka University, Osaka, Japan	'Commissariat à l'énergie atomique, Paris, France	'Linköping University, Linköping, Sweden
	SYNCHROTRON QUANTIFICATION OF STRAIN DURING SHALE FRACTURE	COMBINING SPATIALLY-RESOLVED ELECTRON ENERGY LOSS SPECTROSCOPY EXPERIMENTS WITH ATOMISTIC SIMULATIONS TO STUDY THE PROPERTIES OF HELIUM BUBBLES IN COVALENT SYSTEMS AT THE NANOSCALE	INVESTIGATION OF A MOLECULAR CRYSTAL PLAS- TITICY MECHANISMS: A MULTISCALE APPROACH	
12.20	Dr Anne-Laure Fauchille ¹² . Dr Mike Chandler ² . Dr Lin Ma ³ , Dr Patrick Dowey ³ . Dr Loic Courtois ¹²⁴ . Pr Ernest Rutter ² . Dr Julian Mecklenburgh ³ , Pr Kevin Taylor ³ . Pr Peter Lee ¹²	Dr Marie-Laure David¹, Julien Dérès¹, Dr. Kévin Alix¹, Prof. Cécile Hébert², Dr. Duncan T.L. Alexander², Dr. Laurent Pizzagalli¹	Mr Paul Lafourcade ¹ , Dr Christophe Denoual ¹ , Dr Jean-Bernard Maillet ¹	
	'Manchester X-Ray Imaging Facility, School of Materi- als. the University of Manchester, Manchester, United Kingdom, 'Research Complex at Harwell, Rutherford Appleton Laboratory, Didcot, United Kingdom, 'School of Earth and Environmental Sciences, the University of Manchester, Manchester, United Kingdom, '3Dimagi- nation Ltd, Allas building, Fermi Avenue, Harwell Didcot, United Kingdom	'Institut Pprime, CNRS-Universté de Potiters-ISAE-EN- SMA, Chasseneuil Futuroscope, France, ² CIME, EPFL- SB-CIME-GE, Lausanne, Switzerland	'CEA-DAM, DIF, Paris, France	
	STUDY OF 3D DAMAGE AND STRAIN EVOLUTION IN THIN-SHEET AL ALLOY MATERIALS BY SYNCHROTRON LAMINOGRAPHY AND DIGITAL VOLUME CORRELATION	STRAINED In GAI, ANG SUPERLATTICES EMBEDDED IN GAN NANOWIRES	HYDROGEN MEDIATED UNUSUAL PROPERTIES OF COMPLEX HYDRIDES UNDER PRESSURE	
12.40	Dr. Lukas Helfen ^{1,5} , Dr. Thilo F. Morgeneyer ² , Ante Buljac ² , Dr. Heikki Suhonen4, Dr. Yin Cheng ¹ , Dr. Francois Hild ³ , Prof. Dr. Tilo Baumbach ¹	Dr Theodoros Pavloudis¹, Prof Joseph Kioseoglou¹, Prof Thomas Kehagias¹, Dr. Christoher D. Latham², Dr Mark J. Rayson², Prof Patrick Briddon², Prof Martin Eickhoff*, Prof Theodoros Karakostas¹ Prof Philomela Komninou¹	Ewelina Magos-Palasyuk¹. Dr Taras Palasyuk¹	
(E.W)	'Karlsruher Institute Of Technology, Eggenstein-Leo- poldshaden, Germany, 'Centre des Matériaux - Mines Paristech, Evry cedex, France, 'Laboratoire de Mécanique et Technologie, ENS Paris-Saclay, Cachan, France, 'University of Helsinki, Finland, 'The European Synchrotron (ESRF), Grenoble, France	Department of Physics, Aristotle University of Thes- saloniki, GR-54124Thessaloniki, Greece, ² Department of Chemistry, University of Surrey, Guildford, Surrey GU2 7XH, United Kingdom, ³ School of Electrical and Electronic Engineering, Newcastle University, New- castle upon Tyne NET 7RU, United Kingdom, ⁴ Institute of Experimental Physics I, Justus-Liebig-University Giessen, D-35392 Giessen, Germany	'Institute Of Physical Chemistry PAS, Warsaw, Poland	



Symposium	D8	D9	D10	E2
Room	I -16/M1	Maurice Saltiel Hall I/M2	CR II Hall/M2	CR III Hall/M2
Session Title	Phase stability and transformations in iron and steels	Advanced Modelling of Nuclear Structural Materials (II)	Multiscalle modeling and connecting to continuum level descriptions	Electrolytes
Chairperson	Dr. Mihai-Cosmin Marinica	L. Malerba	Harmandaris-Goddin	P. Knauth
	KEYNOTE/INVITED FROM DENSITY FUNCTIONAL THEORY TO MAGNETIC INTERATOMIC POTENTIALS AND THE CALCULATION OF THERMODYNAMIC OBSERVABLES	KEYNOTE/INVITED MODELLING OF EMBRITTLING FEATURES IN IRRADIATED F/M STEELS AND ALLOYS	KEYNOTE/INVITED ATOMISTICALLY INFORMED FULL-FIELD SIMULA- TION OF TEMPERED MARTENSITE: QUENCHING, TEMPERING AND MECHANICAL CHARACTERIZATION	ELECTROCHEMICAL POLYMERIZATION OF SULFONATED AROMATIC PRECURSORS FOR LI ION MICROBATTERIES
11.00				<u>Dr. Michele Bragli</u> a ¹³ , Dr. Ivan Vito Ferrari ²³ , Prof. Florence Vacandio ¹³ , Prof. Thierry Djenizian ¹³ , Prof. Maria Luisa Di Vona ²³ , Prof. Philippe Knauth ¹³
	Professor Ralf Drautz ¹	<u>Dr Cristelle Pareige</u> ¹	Prof. Ingo Steinbach	Aix Marseille University, CNRS, Marseille, France, University of Rome Tor Vergata (URoma2), Roma, Italy, International Associated Laboratory (L.I.A.), Ionomer Materials for Energy (AMU, CNRS, URoma2),
	[†] ICAMS / Ruhr-Universität Bochum, Bochum, Germany	¹ University Of Rouen - CNRS , Rouen, France	¹ Ruhr-University Bochum, Bochum, Germany	HIGHLIGHT NOVEL IONIC LIQUIDS AS ELECTROLYTE COMPONENTS FOR LI-ION AND LI-S BATTERIES
11.20				Dr Maria Assunta Navarra¹. Dr Akiko Tsurumaki¹, Prof Stefania Panero¹
				'Sapienza University Of Rome, Rome, Italy
	DYNAMIC AB-INITIO BASED SIMULATIONS OF STRUCTURAL PHASE TRANSITIONS IN MAGNETIC IRON AND A NON-COLLINEAR LSDA+U MODEL	NANOSTRUCTURE EVOLUTION OF HIGH-CHROMIUM FERRITIC/MARTENSITIC ALLOYS UNDER NEUTRON AND ION IRRADIATION: AN OBJECT KINETIC MONTE CARLO MODEL	HIGHLIGHT BAYESIAN COARSE-GRAINING	IONOGELS FOR ENERGY STORAGE: THE DETERMINING EFFECT OF THE INTERFACE
11.40	Dr. Pui-Wai Ma¹, <u>Dr. Sergei L. Dudarev</u> ¹	Monica Chiapetto ¹² , <u>Lorenzo Malerba</u> ¹ , Nicolas Castin ¹ , Charlotte Becquart ²	Markus Schoeberl ¹ , Professor Nicholas Zabaras ² , <u>Professor Phaedon-Stelios Koutsourelakis¹</u>	Professor Jean Le Bideau¹, Dr Aurélie Guyo- mard-Lack¹, Dr Bilel Said², Dr Nicolas Dupré¹, Prof Bernard Humbert¹, Prof Dominique Guyomard¹, Prof Thierry Brousse¹, Prof Anne Galarneau²
	¹ Culham Centre For Fusion Energy. Abingdon, United Kingdom	¹ SCK-CEN, Mol, Belgium, ² Lille University of Science and Technology, Villeneuve-d'Ascq, France	¹ Technical University Of Munich, Garching, Germany, ² University of Notre Dame, United States of America	¹ Institut Des Matériaux Jean Rouxel (IMM) - Université De Nantes - CNRS. Nantes, France. ² Institut Charles Gerhardt Montpellier - Université de Montpellier - CNRS, Montpellier, France
	THERMODYNAMIC PROPERTIES OF \$\gamma\$-Fe FROM FIRST PRINCIPLES.	ADVANCED ATOMISTIC AND OBJECT KINETIC MONTE CARLO MODELS DESCRIBING THE DECORATION OF LOOPS BY CR AND THE FORMATION OF CT-NI-SI-P CLUSTERS IN Fe-ALLOYS UNDER IRRADIATION	FROM ATOMISTIC TO SYSTEMATIC COARSE-GRAINED MODELS FOR MOLECULAR SYSTEMS	OXYSULFIDE ELECTROLYTES FOR ALL-SOLID-STATE BATTERY APPLICATIONS
12.00	<u>Hossein Ehteshami</u> l, Pavel A. Korzhavyi ¹²	<u>Dr Nicolas Castin</u> ', Dr Monica Chiapetto ¹² , Dr Lorenzo Malerba ¹	Prof. Vagelis Harmandaris¹	MSc. Theodosios Famprikis ^{12,3} Dr. Pieremanuele Canepa ²³ , Dr. James A Dawson ^{2,3} , Dr. Yue Denny ^{1,2,3} , Dr. Jean-Nosič Chotard ^{1,3} , Prof. Saiful Islam ^{1,3} , Prof. Christian Masqueller ^{1,3}
	¹ Department of Materials Science and Engineering, KTH Royal Institute of Technology, Stockholm, Sweden, ² Institute of Metal Physics, Ural Division of the Russian Academy of Sciences, Ekaterinburg, Russia	¹ SCK*CEN. Belgium. Mol. Belgium. ² Univ. Lille, CNRS, INRA, ENSCL, UMR 8207,UMET, Unité Matériaux et Transformations, Lille, France	¹ University Of Crete, Department of Mathematics and Applied Mathematics, Greece, ³ Institute of Applied and Computational Mathematics FORTH, Heraklion, Greece	'Laboratoire de Réactivité et Chimie des Solides - CNRS, Amiens, France, ¹ Department of Chemistry, University of Bath, Bath, United Kingdom, ² ALISTORE European Research Institute, Amiens, France
	PHASE STABILITY, MAGNETIC AND DEFECT PROPERTIES OF Fe-Cr-Ni Ternary Alloys Predicted by AB Initio Calculations.	SEGREGATION OF Cr TO GRAIN BOUNDARIES IN IRRADIATED FECR ALLOYS WITH CELL-OBJECT KINETIC MONTE CARLO	INTEGRATED COMPUTATIONAL MATERIALS ENGI- NEERING (ICME) AND BUSINESS DECISION SUPPORT SYSTEMS (BIDSS) IN THE CONTEXT OF OPEN INNO- VATION AND INTERDISCIPLINARY COLLABORATION	CONTRIBUTION OF SURFACE SCIENCE (XPS, AES, TOF-SIMS) TO THE KNOWLEDGE OF SOLID ELECTRODE/ELECTROLYTE INTERFACES (SEI) FOR LI ION BATTERIES
12.20	Jan Wróbet ^{1,2} , Mikhail Lavrentiev ² , Krzysztof Kurzydłowski ¹ , Sergei Dudarev ² , Duc Nguyen-Manh ²	<u>Dr Juan Pablo Balbuena</u> ¹, L. Malerba², N. Castin², G. Bonny², Prof. Dr. Maria José Caturla¹	Dr James Goddin ¹ , Dr Donna Dykeman ¹ , Mr Najib Baig ¹ , Dr William Marsden ¹ , Prof. David Cebon ¹	Professor Herve Martinez ¹
	¹ Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland, ² CCFE, UK Atomic Energy Authority, Abingdon, United Kingdom	¹ Dept. Física Aplicada, Facultat de Ciencies, Universitat d'Alacant, Alacant, Spain, ² SCK-CEN, , Belgium	[†] Granta Design, Cambridge, United Kingdom	'Université de Pau et des Pays de l'Adour Iprem-cnrs Umr 5254, Pau, France
	AB INITIO STUDY OF FINITE-TEMPERATURE ELASTIC CONSTANTS OF POLYCRYSTALLINE AND SINGLE-CRYSTALLINE FERROMAGNETIC BCC IRON	AB-INITIO BASED SEARCH FOR LATE BLOOMING PHASES IN IRON ALLOYS		
	Bc. Ondrej Svoboda ¹² . <u>Dr. Martin Friak²³⁴.</u> Priv. Doc. David Holec ⁵ . Associated Professor Vit Jan ⁶⁷⁴ . Prof. Mojmir Sob ³²⁸	<u>Dr. Pavel Korzhavy</u> i ¹² , Dr. Oleg Gorbatov ²³ , Arash Hosseinzadeh Delandar ¹ , Prof. Yuri Gornostyrev ²³		
12.40	Institute of Solid Mechanics. Mechatronics and Biomechanics. Faculty of Mechanical Engineering. Bron University of Technology. Brno. Zesch Republic. "Institute of Physics of Materials. Academy of Sciences of the Zesch Republic. Brno. Zesch Republic. "Central European Institute of Technology. CEITES MI. Masonyk. University. Brno. Zesch Republic. "Central European Institute of Technology. CEITES BUT. Brno University of Technology. Brno. Zesch Republic. "Department of Physical Medallury and Materials Testing. Montanuniversitael Leoben. Leoben. Austria. "Institute of Materials Engineering. RIFM Center, Faculty of Mechanical Engineering. Brno University of Technology. Brno. Zesch Republic. "Department of Structural and Phase Analysis. Faculty of Mechanical Engineering. Brno University of Technology. Brno. Czech Republic." "Department of Chemistry. Faculty of Science. Masaryk. University. Brno. Czech Republic.	*KTH Royal Institute of Technology, SE-100 44 Stockholm, Sweden, *Institute of Metal Physics, Ural Division RAS, 620107 Ekaterinburg, Russia, *Institute of Quantum Materials Science, 620041 Ekaterinburg, Russia		
13.00				



Symposium	E3	E4	F2
Room	Rehearsal Room 5.17/M1	Conference Room 2/M1	3-21/M1
Session Title	Thermoelectrics III	Materials under irradiation	Biomaterials for Therapeutic Delivery I
Chairperson	Yaniv Gelbstein	Christian Grisolia	Montserrat Colilla
	HIGHLIGHT NEW POLAR CHALCOGENIDES AND PNICTIDES: CHEMISTRY, BONDING AND TRANSPORT PROPERTIES	IN-SITU TRANSMISSION ELECTRON MICROSCOPY STUDIES OF ION IRRADIATION EFFECTS IN NANOSCALE MATERIALS	SELF-IMMOLATIVE POLYMERS: A NEW CONCEPT OF GATEKEEPERS FOR MESOPOROUS SILICA NANOPARTICLES
11.00	Prof. Franck Gascoin ¹	<u>Professor Stephen E Donnelly</u> ¹ , Dr Jonathan A Hinks ¹ , Dr Graeme Greaves ¹ , Dr Robert W Harrison ¹ , Dr Anamul H Mir ¹	<u>Dr Miguel Manzano</u> ¹² , Mr Miguel Gisbert-Garzarán ¹² , Prof. María Vallet-Regi ¹²
	¹Crismat Laboratory - U. Of Normandy, Caen, France	¹ University of Huddersfield, United Kingdom	¹Dpto. Química Inorgánica y Bioinorgánica. Universidad Complutense de Madrid. Instituto de Investigación Sanitaria Hospital 12 de Octubre i+12, Madrid, Spain, ²Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Madrid, Spain
	HIGHLIGHT THEORETICAL FEASIBILITY AND ENGINEERING CHALLENGES OF HYBRID PHOTOVOLTAIC-THERMOELECTRIC SYSTEMS	THE EFFECT OF NIOBIUM ON THE IRRADIATION GROWTH PROPERTIES OF Zr-Nb BINARY ALLOYS USED FOR NUCLEAR APPLICATIONS	NOVEL (COORDINATION) POLYMER NANOPARTICLES FOR ADVANCED THERANOSTICS
11.20	Professor Min Gao¹	Miss Rebecca Jones ¹ , Dr Philipp Frankel ¹ , Professor Tamas Ungar ¹ , Professor Michael Preuss ¹	Professor Daniel Ruiz Molina ¹
	¹ Cardiff University, Cardiff, United Kingdom	¹ University Of Manchester, Manchester, United Kingdom	¹Icn2. Campus UAB, 08193, Bellaterra, Spain
	EVALUATION OF MECHANICALLY IMPROVED GETE BASED TE MATERIALS	LOW ACTIVATION TI-5AI-4V-2Zr ALLOY MICROSTRUCTURE AND ITS RESPONSE TO HEAVY ION IRRADIATION	CONTINUOUS FLOW PRODUCTION OF HYBRID NANOMATERIALS FOR APPLICATIONS IN NANOMEDICINE USING MICROFLUIDIC SYSTEMS
11.40	<u>Mr. Gilad Guttmann</u> ¹² , Prof. Yaniv Gelbstein ¹	Mr. Alexander Nikitin¹. Dr. Sergey Rogozhkin¹, Mrs. Olesya Korchuganova¹, Dr. Alexander Vasiliev³, Dr Andrey Drekhov², Dr. Valeriy Leonov², Dr. Irina Schastlivaya², Dr. Martin Heilmaier⁴, Mr. Sascha Seils⁴	Dr Victor Sebastian ¹ , Ms Ane Larrea, Dr Edurne Luque-Michel, Dr Manuel Arruebo, Dr Maria Blanco-Prieto, <u>Prof. Jesus Santamaria</u>
	¹Ben-gurion University, Beer-Sheva, Israel. ²Nuclear Research Center Negev, Beer-Sheva, Israel	¹Institute for Theoretical and Experimental Physics of National Research Centre "Kurchatov Institute", Moscow, Russia, ¹Antional Research Centre "Kurchatov Institute", Moscow, Russia, ¹Central Research Institute of Structural Materials "Prometey", St. Petersburg, Russia, 'Karlsruhe Institute of Technology, Karlsruhe, Germany	'Universidad De Zaragoza, Zaragoza, Spain
	HIGHLIGHT TRACING LOCAL DOPANT IN-HOMOGENEITIES IN THERMOELECTRIC MATERIALS	PROPERTIES OF IRRADIATION-INDUCED POINT DEFECTS IN EUROFER-97 STEELS	EVALUATION OF GOLD NANOPARTICLES IN VIVO USING THE CAENORHABDITIS ELEGANS MODEL ORGANISM
12.00	Dr. Euripides Hatzikraniotis¹	Dr George Apostolopoulos ¹ , Mr Andreas Theodorou ¹ , <u>Dr Zoi Kotsina</u> ¹ , Dr K Mergia ¹ , Dr S Messoloras ¹ , Dr A Lagoyannis ¹ , Dr S Harissopoulos ¹	Laura Gonzalez-Moragas ¹ , Pascal Berto ² , Clara Vilches ² , Romain Quidant ² , Androniki Kolovou ³ , Rachel Santarella-Mellwig ³ , Yannick Schwab ³ , Stephen Stürzenbaum ⁴ , Anna Roig ¹ , <u>Anna Laromaine</u> ¹
	¹ Aristotle University of Thessaloniki, Thessaloniki, Greece	¹NCSR-Demokrilos, Aghia Paraskevi. Greece	'Institut de Ciència de Materials de Barcelona, ICMAB-CSIC., Campus UAB. 08193 Bellaterra, Barcelona - Spain., Spain., 2ICFO-Institut de Ciències Fotòniques., Av. Carl Friedrich Gauss, 3, 08860 Castelldefels, Spain., 3European Molecular Biology Laboratory, EMBL, Meyerhofstraße, 1, 69117 Heidelberg - Germany, Germany, 4 King's College London. Faculty of Life Sciences & Medicine, Analytical and Environmental Sciences Division, 150 Stamford Street, London SE1 9NH - United Kingdom., United Kingdom.
	ELECTRONIC TRANSPORT SIMULATIONS IN NANOSTRUCTURED MATERIALS FOR LARGE THERMOELECTRIC POWER FACTORS	CHARACTERIZATIONS OF ZrCxny CERAMICS AND NEUTRONIC PERFORMANCE FOR NON-OXIDE FUEL FOR GENERATION IV REACTORS	INCORPORATION OF MESOPOROUS BIOACTIVE GLASSES INTO THERMOSEN- SITIVE POLYURETHANE HYDROGELS FOR TISSUE REGENERATION
12.20	<u>Dr Neophytos Neophytou</u> ¹, Dr Mischa Thesberg²	<u>Dr Osama Farid</u> ¹² , Dr Nader Mohamed ²	Sonia Lucia Fiorilli ¹ , Alessandra Bari ¹ , Monica Boffito ² , Carlotta Pontremoli ¹ , Chiara Tonda-Turo ² , Alessandro Torchio ² , Gianluca Ciardelli ² , Chiara Vitale-Brovarone ¹
	¹ University of Warwick, United Kingdom, ² Institute for Microelectronics, Technical University of Vienna, Vienna, Austria	¹ LN.S.A.Lyon, FRANCE, MATEIS - Equipe CorrIS, 21 Avenue Jean Capelle, France, ² Atomic Energy Authority, ETRR- ² , P.O. 13759, Abu Zaabal, Egypt	¹ Department of Applied Science and Technology, Politecnico di Torino, Turin, Italy, ² Department of Mechanical and Aerospace Engineering, Politecnico di Torino, Turin, Italy
12.40	EFFECT OF ANNEALING ON THE THERMOELECTRIC PROPERTIES OF BIO.55b1.5Te3 THIN FILMS GROWN ON RIGID AND FLEXIBLE SUBSTRATES	EFFECT OF HEAVY ION IRRADIATION ON THE MICROSTRUCTURE OF OXIDE DISPERSION STRENGTHENED STEELS	BIOCOMPATIBLE HYBRID NANOGELS FOR REMOTELY CONTROLLED DRUG DELIVERY BY MAGNETIC HYPERTHERMIA
	<u>Dr Elli Symeou</u> ¹, Mrs Christiana Nicolaou¹, Dr. Ioannis Giapintzakis¹	Aleksei Bogachev ^{1,2} , Doctor of science Sergey Rogozhkin ^{2,1} , Nikolay Orlov ^{2,1} , Olesya Korchuganova ^{2,1} , Aleksandr Nikitlin ^{2,1} , Doctor of science, Professor Alexander Zaluzhnyi ^{2,1} , Mihail Kozodaev ^{2,1} , Timur Kulevoy ² , Rostistav Kuibeda ^{2,1} , Petr Fedin ² , Boris Chalykh ² , Lindau Rainer ³ , Doctor of science, Professor Anton Möslang ³ , Doctor of science Pavel Vladimirov ² , Doctor of science Michael Klimenkov ³	Esther Cazares Cortes ¹ , Dr. Ana Espinosa ² , Dr. Nébéwia Griffette ¹ , Dr. Claire Wilhelm ² , Pr. Christine Ménager ¹
	¹ University Of Cyprus, Nicosia, Cyprus	¹ National Research Nuclear University "MEPhI", Moscow, Russian Federation, ² SSC RF TIEP of NRC "Kurchatov Institute", Moscow, Russian Federation, ³ Karlsruhe Institute of Technology, Karlsruhe, Germany	'Laboratory Physicochimie des Electrolytes et des Nanosystèmes Interfaciaux, Paris, France, 'University Paris Diderot, CNRS, UMR 7057, Laboratory MSC, Bât. Condorcet, 10 rue Alice Domon et Léonie Duquet, Paris, France



Symposium	A2	A5	A7	B1
Room	I-11/M1	MOYSA Hall/M2	I-08/M1	Conference Room 3/M1
Session Title	Applications of Magnetic Materials	Nanoparticles: Synthesis and Applications V	Carbon based Materials I	Bainitic Steels I
Chairperson	P. Poulopoulos	Maria Casula	Frank Mücklich	Ilana Timokhina
	KEYNOTE/INVITED MAGNETIC HEUSLER COMPOUNDS FOR SPINTRONIC APPLICATIONS: A THEORETICAL AB-INITIO STUDY	HIGHLIGHT COMPOUND COPPER CHALCOGENIDE NANOCRYSTALS: PROGRESS IN MULTI-ELEMENT SYNTHESIS, COMPLEX SHAPE CONTROL, HIERARCHICAL ASSEMBLY AND DEVICE APPLICATION	POLYELECTROLYTE/GO LAYER-BY-LAYER THIN FILMS FOR ADVANCED COATINGS	CARBON DISTRIBUTION IN BAINITIC FERRITE AT LOW TEMPERATURE
15.00		<u>Professor Kevin Ryan</u> ¹, Dr Claudia Couglan¹	Dr Cristina Valles ¹² , Ms Laura Burk ¹⁴ , Professor Rolf Mülhaupt ¹⁴ , Professor Robert Young ¹² , Professor lan Kinloch ¹²	Rosalia Rementeria ¹ , Jonathan D. Poplawsky ² , Esteban Urones-Garrote ³ , Jose A. Jimenez ¹ , Carlos Garcia-Mateo ¹ , <u>Francisca G. Caballero</u> ¹
	<u>Prof. Dr. losif Galanakis</u>	¹ University Of Limerick, Limerick, Ireland	"School of Materials, University Of Manchester, Manchester, United Kingdom, "National Graphene Institute, Manchester, United Kingdom, "Institute for Macromolecular Chemistry, Albert-Ludwigs-University of Freiburg, Freiburg, Germany, "Freiburg Materials Research Center FMF, Freiburg, Germany	National Center for Metallurgical Research (CEN- IM-CSIC)), Madrid, Spain, 'Oak Ridge National Laboratory, Dak Ridge, USA, '3Centro Nacional de Microscopía Electrónica (CNME), Universidad Complutense de Madrid, Madrid, Spain
	Department of Materials Science University of Patras, Patras, Greece	HIGHLIGHT QUANTUM-CONFINED AND ENHANCED OPTICAL ABSORPTION OF COLLOIDAL PBS QUANTUM DOTS AT WAVELENGTHS WITH EXPECTED BULK BEHAVIOR	HIGH LATERAL RESOLUTION AUGER IMAGING OF DIFFERENT CARBON ALLOTROPES	NEW MEDIUM C NANOSTRUCTURED BAINITIC STEEL CONCEPT
15.20		<u>Carlo Giansante</u> '	Dr. Viliam Vretenár ¹ , Dr. Lubomír Vančo ¹ , DiplIng. Peter Vogrinčič ¹ , Dr. Marian Varga ² , Dr. Mário Kotlár ¹ , Dr. Viera Skákalová ¹ , Dr. Marian Veselý ¹	Dr Yahya Palizdar', Mr. F Moradi', Prof. F. G. Caballero ² , Dr C. Garcia-Mateo ² , Dr A. Kolahi ¹
		¹ Dipartimento Di Fisica, Università Del Salento, Lecce, Italy, ² NANOTEC- CNR, Istituto di nanotecnologia, Lecce, Italy	"STU Centre For Nanodiagnostics, Bratislava, Slovakia, ² Institute of Physics of the ASCR, v.v.i., Praha, Czech Republic	¹ Nanotechnology and Advanced Materials, Materials and Energy Research Center (MERC), Tehran, Iran, ² Spanish National Center for Metallurgical Research (CENIM-CSIC), Madrid, Spain
	HIGHLIGHT SELECTIVE MAGNETIC SEPARATION USING MAGNETIC NANO-POWDERS FOR ENGINEERING APPLICATIONS	HIGHLIGHT FORMATION MECHANISM AND OSTWALD RIPENING OF SEMICONDUCTOR NANOPLATELETS	PREPARATION AND THERMAL CONDUCTIVITY OF NANOCELLULOSE-BASED FOAMS	MULTI-SCALE CHARACTERISATION OF A MICRO- ALLOYED "CARBIDE-FREE BAINITE" STEEL
15.40	Dr Angelo Ferraro, <u>Mr Evangelos Hristoforou</u> ¹	Dr. Andreas Riedinger ¹	Ms Varvara Apostolopoulou Kalkavoura¹. Ms Korneliya Gordeyeva¹. Professor Lennart Bergström¹	<u>Zélie Tournoud</u> ¹² , Patricia Donnadieu ¹ , Didier Huin ² , Alexis Deschamps ¹ , Gilles Renou ¹
	'National Tu Of Athens, Athens, Greece	¹ Optical Materials Engineering Laboratory, ETH , Zürich, Switzerland	¹ Stockholm University, Dept. of Materials and Environmental Chemistry, Stockholm, Sweden	¹ Univ. Grenoble Alpes, CNRS, Grenoble INP, SIMaP, F-38000 Grenoble, France, ² ArcelorMitlal Research Centre, F-57280 Maizières-lès-Metz, France
	HIGHLIGHT GRAPHENE DERIVED ROOM TEMPERATURE ANTIFERROMAGNETS AND PROMISING SPINTRONIC MATERIALS	HIGHLIGHT LIGHT EMITTING DIDDES, AMPLIFIED SPONTANEOUS EMISSION, AND LASING FROM COLLOIDAL NANO- CRYSTAL FILMS	KEYNOTE/INVITED NANOCELLULOSE AS FUNCTIONAL MATERIALS FOR ELECTRONIC AND ENERGY APPLICATIONS	NANOSTRUCTURED BAINITE THERMAL STABILITY
16.00	Prof. Jiří Tuček¹, Dr. Piotr Blonski¹, Prof. Dr. Michal Otyepka¹, Prof. Dr. Radek Zbořil¹	Roman Krahne ¹		<u>Dr. Carlos Garcia-Mateo</u> ', Mr Miguel A. Santajuana', Dr Jose A. Jimenez', Dr Matthias Kuntz ² , Prof Francisca G. Caballero'
	Regional Centre Of Advanced Technologies And Materials, Faculty Of Science, Palacky University In Olomouc, Olomouc, Czech Republic	¹Istituto Italiano Di Tecnologia, Genoa, Italy	Professor Pooi See Lee¹	¹ National Center for Metallurgical Research (CENIM-CSIC), Madrid, Spain, ² Robert-Bosch GmbH, Stuttgart, Germany
	MAGNETO-PLASMONIC HYBRID FePt/SiO ² /Au NANOPARTICLES AS NOVEL THERANOSTIC TOOLS FOR CANCER TREATMENTS EVALUATED IN-VITRO	OPTOELECTRONIC PROPERTIES OF A DISPERSION OF CASE QUANTUM DOTS WITHIN A CDS BARRIER MATERIAL		TOWARDS A MORE SUSTAINABLE MANUFACTURING OF ADVANCED MULTIPHASE STEELS THROUGH THE ACCELERATION OF BAINITE FORMATION
16.20	Dr. Kristina Zuzek Rozman ¹² , Irena Abramovic ¹ , Dr. Saso Sturm ¹² , Dr. Samo Hudoklin ³ , Dr. Mateja Erdani Kreft ² , Dr. Nina Kostevsek ¹ , ²	Mr Emanuele Alberto Slejko [†] , PhD Vanni Lughi [†]		Mr. Alfonso Navarro-López¹, Dr. Javier Hidalgo Garcia¹, Prof. dr. ir. Jilt Sietsma¹, Dr. Maria J. Santofimia Navarro¹
	¹ Jozef Slefan Institute, Ljubljana, Slovenia, ² Jozef Stefan International Postgraduation School, Ljubljana, Slovenia, ³ Institute for Cell Biology, Medical Facuty University of Ljubljana, Ljubljana, Slovenia	¹ Department of Engineering and Architecture, Università Degli Studi Di Trieste, Trieste, Italy		¹ Delft University of Technology, Delft, Netherlands
	HIGHLIGHT ONE-STEP ROUTE TO IRON OXIDE HOLLOW NANOCUBOIDS BY CLUSTER CONDENSATION FOR THE AS REMOVAL IN DRINKING WATER	SYNTHESIS AND OPTICAL CHARACTERIZATION OF HIGHLY LUMINESCENT SILICA COATED CdSe/CdS/ ZnS Core/Shell Quantum Dots	Nanyang Technological University, School of Materials Science and Engineering, 50 Nanyang Avenue, Blk N4.1, Singapore	NEW PROCESS OF STEEL HEAT TREATMENT LEADING TO A MULTIPHASE, NANOCRYSTALLINE MICROSTRUCTURE WITH HIGH MECHANICAL PROPERTIES
16.40	Dr Lluis Balcells', Dr Carlos Martinez-Boubeta ² , Sr José Cisneros-Fernández', Ms Aanchal Alagh', Mr Jorge Flores', Dr. Bernat Bozzo', Dr Judit Oro', Ms Núria Bagués', Dr Konstantinos Simeonidis's, Prof Jordi Arbiol ² , Dr Carlos Frontera', Dr Narcis Mestres ¹ , Prof Benjamín Martinez ¹	<u>Ms. Elleke van Harten</u> ¹, Ms. Jantina Fokkema¹², Prof. dr. Andries Meijerink¹		Professor Wieslaw Swiatnicki¹, Piotr Radowski¹, Mariusz Dabrowski¹, Karolina Dudzinska¹, Dr Emilia Skolek¹
	¹Icmab-csic, Bellaterra, Spain, ²Freelancer, Santiago de Compostela, Spain, ³Universidad Técnica Federico Santa Maria, Valparaiso, Chile, ⁴University of Thessaly, Thessaloniki, Greece, ³Institució Catalana de Recerca i Estudis Avancats, Barcelona, Spain	¹ Condensed Matter and Interfaces, Debye Institute for Nanomaterials Science, Utrecht University, Utrecht, Netherlands, ² Soft Condensed Matter and Biophysics, Debye Institute for Nanomaterials Science, Utrecht University, Utrecht, Netherlands		¹ Warsaw University of Technology, Faculty of Materials Science & Technology, Warszawa, Poland
	. ,			



Symposium	B2	B3	В7	B8
Room	Aimilios Riadis Hall/M2	CR I Hall/M2	CR III Hall/M2	Conference Room 1/M1
Session Title	Titanium	Polycrystalline Ni Base Superalloys II	Design and Synthesis of MOFs and Innovative Hybrids	Physical Properties
Chairperson	Guillermo Renquena	S. Milenkovic	Bartolomeo Civalleri	Nick Jones
	IMPROVING THE MECHANICAL PROPERTIES OF THE BETA TITANIUM ALLOY TI 38-644 BY MEANS OF THERMOHYDROGEN PROCESSING	EFFECTS OF STRAIN RATE AND TEMPERATURE VARIA- TION ON DISLOCATION STRUCTURES AND FAULTS IN A POLYCRYSTALLINE Ni-BASED SUPERALLOY	ONE-POT SYNTHESIS OF NOVEL BASIC BARIUM- PYROGLUTAMATE-BASED MOF	TRACER DIFFUSION IN HIGH ENTROPY ALLOYS
15.00	Prof. Dr. Hans-Juergen Christ ¹ . Vitali Macin ¹ , Peter Schmidt ²	Regina Schlütter', Olivier Messé', Enrique Galindo-Nava', Thomas Jackson², Catherine Rae'	Dr. Gisela Orcajo ¹ , PhD. Pedro Leo ¹ , Dr. David Briones ¹ , Dr. Antonio Rodríguez-Diéguez ² , Prof. Guillermo Calleja ¹	<u>Dr. Sergiy Divinski</u> [†]
	'Universitaet Siegen, Siegen, Germany, 'SGS Institut Fresenius GmbH, Dortmund, Germany	¹ Department of Malerials Science and Metallurgy, University of Cambridge, Cambridge, CB3 0FS, United Kingdom, ² Rolls- Rayce plc, Derby, DE24 8BJ, United Kingdom	Department of Chemical and Energy Technology, Universidad Rey Juan Carlos, Móstoles, España, ² Inorganic Chemistry Department, University of Granada, Granada, Spain	'Institute of Materials Physics, University of Münster, Germany, Münster, Germany
	EFFECT OF CONSTITUENT PHASES ON MECHANICAL PROPERTIES OF A BETA TITANIUM ALLOY	THE EFFECTS OF MICROSTRUCTURE AND MICROTEXTURE GENERATED DURING SOLIDIFICATION ON DEFORMATION MICROMECHANISM IN IN713C NICKEL BASED SUPERALLOY	MOFs BUILT UP FROM (POLY)PHENOLATE LIGANDS: CHALLENGES AND OPPORTUNITIES	MICROSTRUCTURE AND HIGH TEMPERATURE OXI- DATION BEHAVIOR OF REFRACTORY HIGH ENTROPY ALLOYS Nb-Mo-Cr-Ti-Al AND Ta-Mo-Cr-Ti-Al
15.20	Seung Eon Kim ¹ , Ka Ram Lim ¹ , Young Sang Na ¹	Mr. Gang Liu¹, Mr. Sean Winwood², Mrs. Kaite Rhodes², Dr. Soran Birosca¹	Thomas Devic ^{1,2} , Lucy Cooper ² , Georges Mouchaham ² , Hala Assi ² , Tania Hidalgo ² , Martin Gorman ² , Laura Pardo Perez ² , Nathalie Guillou, Charlotte Martineau ² , Christian Serre ² , Patricia Horcajada ²	DrIng. Bronislava Gorr ¹ , M.Sc. Franz Mueller ¹ , Prof. Hans-Juergen Christ ¹ , DiplIng. Hans Chen ² , DrIng. Alexander Kauffmann ² , Prof. Martin Heilmaier ²
	'Korea Institute Of Materials Science, Changwon, South Korea	¹ College of Engineering, Swansea University, Swansea. United Kingdom, ² Cummins Turbo Technologies, Huddersfield HD1 6RA, United Kingdom	'CNRS - Institut des Materiaux Jean Rouxel, Nantes, France, 'CNRS - Institut Lavoisier Versailles, Versailles, France	"University of Siegen, Siegen, Germany, ² Karlsruhe Institute of Technology, Karlsruhe, Germany
	INVESTIGATION OF THE CHEMICAL PARTITIONING DURING THE DECOMPOSITION OF THE BETA PHASE IN TI-5553 ALLOY	EFFECTS OF ADDITION OF LANTHANIDE OXIDES ON MICROSTRUCTURE EVOLUTION AND MECHANICAL PROPERTIES OF ALLOY 690 BASED OXIDE DISPERSION STRENGTHENED ALLOYS	HIGHLIGHT SMART SUPRAMOFS: SMART SUPRAMOLECULAR ASSEMBLY WITH IN-SITU GENERATED MOF CONSTITUENTS	DETERMINATION OF LATTICE DISTORTION AND MECHANICAL PROPERTIES OF SINGLE PHASE HIGH-ENTROPY ALLOYS
15.40	Mr. Morgan Goetz ^{1,4} , Mr. Moukrane Dehmas ² , Mrs. Elisabeth Aeby-Gautier ¹ , Mr. Benoît Appolaire ² , Mrs. Sandra Andrieu ⁴ , Mrs. Marion Descoins ³ , Mr. Dominique Mangelinck ²	<u>Dr Young-bum Chun</u> ¹, Dr Gyeong Su Shin¹, Mr Chang Hee Han¹, Dr Jinsung Jang¹	Mr. Abhijeet Chaudhari!, Professor Jin-Chong Tan'	Junhee Han ¹ , Pramote Thirathipviwat ^{1,2} , Professor Jens Freudenberger ^{1,3} , Jozef Bednarcik ⁴ , Thomas Gemming ¹
	"Institut Jean Lamour, Metz, France, ² CIRIMAT - ENCIASET, Toulouse, France, ³ Laboratoire d'Etude des Microstructures - ONERA, Chatillon, France, ⁵ Safran Landing Systems, Oloran Sainte Marie, France, "MAZNP, Faculté des Sciences et Techniques, Marseille, France	¹ Nuclear Materials Development Division, Korea Atomic Energy Research Institute, Deajeon, South Korea	. 'Department of Engineering Science. University Of Oxford. Oxford, United Kingdom	"IFW Dresden, Dresden, Germany, *TU Dresden, Institute of Materials Science, Dresden, Germany, *TU Bergakademie Freiberg, Institute of Materials Science, Freiberg, Germany, *DESY Photon Science, Hamburg, Germany
	ORIGIN OF (332)<113> TWINNING SYSTEM IN METASTABLE BETA TITANIUM ALLOYS	THE EFFECTS OF FORGING STRAIN ON GRAIN SIZE EVOLUTION IN RR1000 NICKEL BASE SUPERALLOY DURING SUPER SOLVUS HEAT TREATMENT.	GEL-BASED SHAPING OF ZIRCONIUM METAL-ORGANIC FRAMEWORKS	ASSESSING LOCAL LATTICE STRAIN IN AN HEA USING NEUTRON TOTAL SCATTERING
16.00	Dr. Philippe Castany ¹ . Dr. Yang Yang ¹ . Dr. Emmanuel Bertrand ² . Pr. Thierry Gloriant ¹	<u>Mr Benjamin Jeans</u> ¹, Dr Mark Hardy², Mr Iain Parr², Dr Soran Birosca¹	Dr. Bart Bueken ¹ , Niels Van Velthoven ¹ , Dr. Tom Willhammar ² , Prof. Rob Ameloot ¹ , Prof. Sara Bals ² , Prof. Dirk De Vos ¹ , Dr. Thomas Bennett ⁰	Mr Lewis R Owen ¹² , Dr Helen Y Playford ² , Dr Ed J Pickering ³ , Dr Howard J Stone ¹ , Dr Matthew Tucker ⁴ , Dr Nicholas G Jones ¹
	'INSA Rennes, ISCR-CM, Rennes, France, ¹ Institut des Matériaux Jean Rouxel (IMN), Nantes, France	^I Institute of Structural Materials, United Kingdom, ² Rolls Royce plc, United Kingdom	Centre for Surface Chemistry and Catalysis. Ku Leuven. Leuven. Belgium. ² EMAT. University of Antwerp. Antwerp. Belgium. ² Department of Materials Science and Metallurgy, University of Cambridge, Cambridge, United Kingdom	Department of Materials Science and Metallurgy. University Of Cambridge. Cambridge. UK. 'ISIS Neutron and Muon Source. STFC, Didcot, Oxford, UK. 'School of Materials, University of Manchester, Manchester, UK. 'Spallation Neutron Source, Oak Ridge National Laboratory, US
	MICROSTRUCTURAL OPTIMIZATION AND DEFORMATION MECHANISM STUDY OF A METASTABLE BETA TITANIUM ALLOY	INFLUENCE OF THE MICROSTRUCTURE AND STRESS ON THE CREEP DEFORMATION MICROMECHANISMS IN THE AD730 TM Ni-BASED SUPERALLOY	NOVEL FUNCTIONAL 3D POROUS BISMUTH-BASED METAL-ORGANIC FRAMEWORK	PHASE-FIELD SIMULATION OF TRACER DIFFUSION IN HIGH ENTROPY ALLOYS
16.20	Dr Junheng Gao', Prof. W.Mark Rainforth ¹	Winnie Vultos', Florence Pettinari-Sturmel ¹ , Muriel Hantcherli ¹ , Joël Douin ¹ , Louis Thébaud ^{2,3} Patrick Villechaise ² , Jonathan Cormier ² , Alexandre Devaux ³	Dr. Sérgio M. F. Vilela¹, Dr. Thomas Devic², Dr. Patricia Horcajada¹	Katrin Abrahams ¹ , Daniel Gaertner ² , Matthias Stratmann ¹ , Dr. Oleg Shchyglo ¹ , PD Dr. S.V. Divinski ² , Prof. Dr. Ingo Steinbach ¹
	'The University Of Sheffield , United Kingdom	¹ CEMES-CNRS, BP 94347, 29 rue Jeanne Marvig, 31055 Toulouse cedex ⁴ , France, ² Institut Pprime, UPR CNRS 3346 Physics and Mechanics of Materials Department, ISAE-ENSMA BP 40109, 86961 Futuroscope - Chasse- neuil, France, ³ Aubert & Duval, Site des Ancizes BP1, 63770 Les Ancizes Cedex, France	'IMDEA Energy, Móstoles, Spain, 'Institut de Matériaux de Nantes, Nantes, France	'Interdisciplinary Centre for Advanced Materials Simulation (ICAMS), Ruhr-University Bochum, Germany, 'Institute of Materials Physics, University of Münster, Germany
	CHARACTERIZATION OF ENERGY DISSIPATION CAPACITY OF 6 METASTABLE TITANIUM ALLOYS AS A FUNCTION OF MICROSTRUCTURE	INFLUENCE OF A THERMOMECHANICAL TREATMENT ON Y PRECIPITATES AND THE CREEP BEHAVIOR OF THE NEW NICKEL BASE SUPERALLOY AD730		ELASTIC BEHAVIOR OF SINGLE CRYSTAL HIGH ENTROPY CANTOR-ALLOY
16.40	Dr. Wafa Elmay ¹ , Xavier Gabrion ² , Associate Professor Pascal Laheurte ¹ , Associate Professor Sophie Berveiller ¹	Anne Hesselink', Mikhail Solovev ¹ , Jan-Marc Tiemann ¹ , Prof. DrIng. Ulrich Krupp ¹ , Prof. DrIng Bernhard Adams ¹		<u>DipL-Ing. Fabian Krieg</u> ¹ , M.Sc. Mike Mosbacher ¹ , Prof. DrIng. Uwe Glatzel ¹
	¹ Laboratory LEM3 , UMR CNRS 7239, Metz, France, ² Laboratory FEMTO-ST UMR 6174, 25000 Besançon, France	¹ Hochschule Osnabrueck, Osnabrueck, Germany		[†] Metals and Alloys, University Bayreuth, Bayreuth, Germany

EUROMAT2017 10<u>1</u>



Symposium	B10	B11	C1	C4
Room	Maurice Saltiel Hall II/M2	Maurice Saltiel Hall III/M2	Friends of Music Hall/M1	Conference Room 4/M1
Session Title	Corrosion & Wear II	Steels	C1.2: Coatings deposition routes and novel characterization techniques 2/5 Deposition routes II	Additive Manufacturing of polymers 1
Chairperson	Ahmet Yilmaz	T. Klüsner	N. Bagcivan, H. Biederman	Ugo Lafont
	HYDROGEN EMBRITTLEMENT SUSCEPTIBILITY OF NICKEL BASE ALLOYUNS NO7718 IN RELATION TO THE MATERIAL MICROSTRUCTURE	INFLUENCE OF THE G-PHASE PRECIPITATION ON MECHANICAL PROPERTIES IN AGED DUPLEX STAINLESS STEEL	KEYNOTE/INVITED AN APPLICATION FOR THE STATIC LARGE AREA PVD TECHNOLOGY WITH A ROTARY CATHODE ARRAY: DEPOSITION OF NEXT GENERATION MOX ACTIVE LAYERS FOR AM-TFT DISPLAY BACKPLANES	A STUDY OF ADDITIVELY MANUFACTURED SPACE HARDWARE - TOWARDS AN END-TO-END PROCESS
15.00	Olesya Gosheva ¹ , Prof. Matthias Oechsner, Dr. Georg Andersohn, Dr. Jutta Kloewer ²	Romain Badyka ¹ , Dr Cristelle Pareige ¹ , Dr Sébastien Saillet ² , Dr Christophe Domain ²		<u>Dr. Tommaso Ghidini</u> ', Dr. Martina Meisnar ¹ , Dr. Johannes Gumpinger ¹ , Dr. Laurent Pambaguian ¹ , Dr. Ana Brandao ¹
	'Institut Für Werkstoffkunde TU-darmstadt, Darmstadt, Germany, ² VDM Metals International GmbH. Altena, Germany	Groupe de Physique des Matériaux Normandie Université, UMR 6634 CNRS, Rouen, France, ² EDF R&D Département Matériaux et Mécanique des Composants, Moret sur Loing, France	Dr. Marcus Bender¹, Hyun Chan Park¹, Ajay Sampath Bhoolokam¹, Andreas Klöppet¹, Markus Hanika¹	¹ European Space Agency, Noordwijk, The Netherlands
	SYSTEMATIC INVESTIGATION OF MICROSTRUCTURAL AND ENVIRONMENTAL EFFECTS ON HYDROGEN EMBRITTLEMENT OF FERRITIC STEELS	CHARACTERISATION OF DEFORMATION AND FRACTURE BEHAVIOR OF STAINLESS DUPLEX STEELS AT SUB-ZERO TEMPERATURES BY MEANS OF EBSD-ANALYSIS	'Applied Malerials GmbH & Co. KG, Alzenau, Germany	INFLUENCE OF SPATIAL ORIENTATION ON MECHAN- ICAL AND FUNCTIONAL PROPERTIES OF 3D PRINTED THERMOPLASTIC POLYMER PARTS
15.20	M.Sc. Waldemar Krieger¹, Dr. Sergiy Merzlikin¹, Dr. Asif Bashir¹, Dr. Hauke Springer¹, Dr. Michael Rohwerder¹	<u>DrIng. Marina Knyazeva</u> ¹² , Prof. DrIng. Frank Walther ¹ , Prof. DrIng. Michael Pohl ²		Anna Daurskikh¹, <u>Antonella Sgambati</u> ². David Graça¹, Dr. Marco Berg², Aurora Baptista², Mario Angelo², Dr. Ugo Lafont⁴
	'Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf, Germany	¹ TU Dortmund University / Department of Materials Test Engineering (WPT), Dortmund, Germany, ² Ruhr-University Bochum / Department of Materials Testing (WP), Bochum, Germany		¹ Sonaca Space GmbH. Berlin. Germany. ² 0HB System AG. Bremen, Germany. ³ BEEVERYCREATIVE, Aveiro, Portugat. ⁴ ESA, Noordwijk, Netherlands
	COPPER SURFACE CHANGES DURING WET PLATING TESTS IN ANTI-BACTERIAL SURFACE RESEARCH	INFLUENCE OF MECHANICAL STRESS ON THE PROPERTIES OF STEELS DESIGNED FOR GENERATION IV. REACTORS FUEL CLADDING	THERMAL SPRAY COATINGS DEPOSITION ON BALLISTIC ARAMIDE TEXTILES FOR IMPROVED PERFORMANCE LIGHTWEIGHT PROTECTIVE PANELS	A STUDY ON THE INFLUENCE OF FIBRE CONTENT ON THE MECHANICAL BEHAVIOUR OF 3D PRINTED THERMOPLASTIC PARTS
15.40	<u>Jiaqi Luo</u> ¹² , Dr. Christina Hein ³ , Prof. Dr. Marc Solioz ⁴ , Prof. Dr. Jean François Pierson ² , Prof. Dr. Frank Mücklich ¹	Ing. Zbyněk Špirit ^{1,2} , Ing. Michal Chocholoušek ¹ , Marek Šíma ¹	Mr Ilias Georgiopoulos ¹ . Mr Petros Ioannou ¹ , Ms Zoi Tatoudi ¹ , Dr. Silvia Pavlidou ¹ , Dr. Constantina Andreouli ¹	Isaac Ferreira ¹² , <u>PhD Margarida Machado</u> ¹ , André J. Cavaleiro ¹ , Rui Neto ¹² , Jorge Lino Alves ¹² , Ana Reis ¹²
	'Chair of Functional Materials, Saarland University, Germa- ny: Institut Jean Lamour, Université de Lorraine, France, 'Inorganic Solid State Chemistry, Saarland University, Germany: Pepartment of Clinical Research, University of Bern, Switzerland	Research Centre Rez, Pilsen, Czech Republic, ² University of West Bohemia, Pilsen, Czech Republic	[†] Mirtec S.a. 34100 Chalkida, Greece	INEGI - Institute of Science and Innovation in Mechani- cal and Industrial Engineering, Porto, Portugal, ² FEUP - Faculty of Engineering of University of Porto, Porto, Portugal
	ELECTROCHEMICAL PERFORMANCE OF HARDMETAL ALLOYS IN DIFFERENT CORROSIVE MEDIA	QUANTIFICATION OF PEARLITE SPHEROIDISATION IN RAILWAY WHEEL STEEL USING ORIENTATION IMAGING MICROSCOPY AND MICROSTRUCTURAL IMAGE ANALYSIS	MICROSTRUCTURAL ANALYSIS OF 200 µm THIN SHEETS COATED BY LASER CLADDING	TWO-PHOTON POLYMERIZATION TECHNIQUE FOR POLYMERIC PHOTONIC STRUCTURES
16.00	<u>Dr. Rúben Santos</u> ¹, Fábio Rodrigues², Prof. Carlos Fonseca¹, Dr. Eduardo Soares², Prof. Manuel Vieira¹, Prof. Luís Malheiros¹	<u>Lic. Eng. Dimitrios Nikas</u> ', Docent Johan Ahlström ¹	Tobias Gabriel ¹ , DrIng. Florian Scherm ¹ , Prof. Dr. Marek Gorywoda ² , Prof. DrIng. Uwe Glatzel ¹	<u>Lei Zheng</u> ¹. ¹ . Kestutis Kurselis¹, Prof. Cartsen Rein- hardt¹²², Dr. Andrey Evlyukhin¹, Dr. Roman Kiyan¹, Prof. Boris Chichkov¹
	"CEMUC, Department of Metallurgical and Materials Engineering, University of Porto, Porto, Portugal, "DURIT, Metalurgia Portuguesa do Tungsténio, Lda, Albergaria-a-Velha, Portugal	Chalmers University of Technology, Gothenburg, Sweden	"University Bayreuth, Metals And Alloys, Bayreuth, Germany, ² University of Applied Sciences Hof, Materials Engineering, Hof, Germany	¹ Laser Zentrum Hannover e.v., Hannover, Germany, ² Laboratory for Nano and Quantum Engineering, Hannover, Germany, ³ Hochshule Bremen, Bremen, Germany
	EVALUATION OF ORGANIC COATINGS ON METALLIC SUBSTRATES FOR USE IN FOOD PACKAGING	THE RELATION OF GRAIN SIZE DISTRIBUTION AND MECHANICAL PROPERTIES OF INTERSTITIAL FREE STEEL	EFFECT OF BATH COMPOSITION FOR Ni-P COATINGS ON CARBON FIBRES	4D PRINTING FOR SPACE APPLICATIONS
16.20	Dr Azarias Mavropoulos ¹² . Dr Oliver Lewis ²	Mr. Wei Li¹, Prof.dr.ir. Jilt Sietsma¹	Anıl Alten ¹ , Dr. Gökçe Hapçı Ağaoğlu ¹ , Dr. Eray Erzi ¹ , Assoc. Prof. Derya Dışpınar ¹ , Prof. Dr. Gökhan Orhan ¹	<u>Dr Adam Mitchell'</u> , Dr Ugo Lafont ¹ , Dr Malgorzata Holynska ¹ , Dr Christopher Semprimoschnig ¹
	"Physical Metallurgy Laboratory, Mechanical Engineer- ing Department, Aristotle University of Thessaloniki, THESSALONIKI, Greece, "Materials and Engineering Research Institute, Sheffield Hallam University, SHEFFIELD, United Kingdom	Department of Materials Science and Engineering, Delft University of Technology, Mekelweg ² , 2628 CD Delft. The Netherlands	'Istanbul University	'Components and Materials' Physics and Chemistry Evaluation & Standardisation Division (TEC-QEE) European Space Research and Technology Centre (ESTEC), European Space Agency (ESA), Noordwijk, Netherlands
	AN X-RAY DI FFRACTION ANALYSIS OF THE SUR- FACE AND SUB-SURFACE DAMAGE OF 0.2 WT%-C MARTENSITE AFTER THREE-BODY ABRASION	CRACK INITIATION IN FERRITIC MARTENSITIC STEEL T9' AND AUSTENITIC '.9'0 IN PbBi	ECR PLASMA DEPOSITED a-SiCN: H AS INSULATING LAYER IN PIEZOCERAMIC MODULES	
16.40	Dr Subhankar Das Bakshi ¹ , <u>Ms. Divya Sinha</u> ¹ , Dr Sandip Ghosh Chowdhury ² , Mr Vinay Mahashabde ¹	Michal Chocholoušek', <u>Fosca Di Gabriele</u> ¹ , Anna Hojná', Zbyněk Špirit ¹	Dr. Siegfried Peter ¹ , B. Sc. Yevgen Vasin ¹ , Dr. Florian Speck ¹ , M. Sc. Samir Mammadov ¹ , Prof. Dr. Thomas Seyller ¹	
	'Tata Steel Limited, Jamshedpur, India, 'National Metallurgical Laboratory, CSIR, Jamshedpur, India	'Centrum výzkumu Řež s.r.o., Husinec-Řež, Czech Republic	¹ Technische Universität Chemnitz. Institut für Physik, Professur für Technische Physik, D-09107 Chemnitz, Germany	



B Made Signater (In Steppe Interdition) In Table Water Steppe (Interdition) In Table Water Steppe (Interdition) In Table Water Steppe (Interdition) A Machines of Compact Amendment (Interdition) A Machines of	Symposium	C10	D1	D2	D3
Part Part	Room	F 319/M1	Artist Café/M1	Museum Hall /M2	I-15/M1
PROCESS READ STREET, IN CASE OF THE ADD STREET,	Session Title		Tomography & Topography		Metals under extreme conditions
RECEIVED FOR STATE OF	Chairperson	Yu. Ivanisenko, T Lowe	Peter Voorhees, Eric Maire	Vincent Mauchamp	Dimitris Christofilos
D. 1883 Signary: 18. Singley President Control Security Control Control Security Control Control Security Control Control Security Control Control Security Control Control Security Control C		THERMOMECHANICAL PROCESSING AND SEVERE	TION: IN SITU LAMINOGRAPHY MEASUREMENTS	STRUCTURE OF COLLOIDAL MONOLAYER ${\rm In}_2{\rm Se}_3$ Nanosheets	EQUATION OF STATE AND SOUND VELOCITY OF CONDENSED LIQUID ALKALINE ELEMENTS BY PICOSECOND ACOUSTICS AT HIGH PRESSURE
Company Amended and Secretary Company Secretary Company Amended and Secretary Company Amended and Secretary Company Amended and Secretary Company Company Amended and Secretary Company Comp	15.00			Giannini ³ , Roberto Gaspari ¹ , Sedat Dogan ¹ , Stefano Perissinotto ⁴ , Sandeep Ghosh ¹ , Roman Krahne ¹ ,	Professor Frederic Decremps ¹ , Assistant Professor Simon Ayrinhac ¹ , researcher Michel Gauthier ¹
## SERVE LANG COMMON PROCESSOR ## SERVE LANG COMMON PROCESSOR ## Parties Part Let 10 ft and Can' to Yearn Approach Assessor Programme Application of the Common Processor Proc			France, ² KIT/Institute of photon science and synchrotron radiation, Karlsruhe, Germany, ³ The European Synchrotron	Consiglio Nazionale delle Ricerche, Parma, Italy, ³Istituto di Cristallografia, Consiglio Nazionale delle Ricerche, Bari, Italy, ⁴Istituto Italiano di Tecnologia (IIT@ PoliMi), Milano, Italy, ¹Università degli Studi di Genova,	¹ Sorbonne Université, Paris, France
Modernated Dr. Robert Schaeper Brogleton Houseand Brogleton Hous			TRON X-RAY CHARACTERISATION OF SEMI-SOLID	BY GEOMETRIC PHASE ANALYSIS AND SCANNING	RUBIDIUM AT EXTREME CONDITIONS
Modestant, Name of Long and Compared and Compared and Compared And Compared and Compared And Com	15.20	Belgorod, Russian Federation, ² Karlsruhe Institute of Technology, Institute of Nanotechnology,		Bogusława Kurowska ¹ , MSc Marta Bilska ¹ ,	
PLASTICITY IN A GOLD SUB-MICRON (CRISTAL TO COMMON HORSE PROSECTED SCAM- THE CRISTAN PROPERTY IN A GOLD SUB-MICRON (CRISTAL TO COMMON HORSE PROSECTED SCAM- THE CRISTAN PROPERTY IN A GOLD SUB-MICRON (CRISTAL TO COMMON HORSE PROSECTED SCAM- THE CRISTAN PROPERTY IN THE SUB-MICRO (CRISTAL TO COMMON HORSE PROSECTED SCAM- THE CRISTAN PROPERTY IN THE SUB-MICRO (CRISTAL TO COMMON HORSE PROSECTED SCAM- THE CRISTAN PROPERTY IN THE SUB-MICRO (CRISTAN PROPERTY IN THE SUB-MICRO CRISTAN PROP			Manchester, United Kingdom, ² Research Complex at Harwell, Harwell, United Kingdom, ³ Diamond Light	al. Lotników 32/46, 02-668 Warsaw, Poland,	¹ CLNS - Istituto Italiano di Tecnologia, Rome, Italy, ² Istituto Nazionale di Ottica, CNR-INO, Firenze, Italy
Dr. Coulame Bolland P. Dr. Charles Stages St		MICROSTRUCTURAL EVOLUTION IN A SINGLE PHASE FCC HIGH ENTROPY ALLOY DURING HIGH PRESSURE		STRUCTURES BY ABERRATION-CORRECTED SCAN-	
Control of Monocontens of A Nontechnology	15 40		Dr. Guillaume Beutier¹, Dr. Gilbert Chahine³, Pr. Dr. Eugene Rabkin⁴, Dr. Marie-Ingrid Richard², Dr. Stéphane Labat², Dr. Guillaume Parry¹,	Dr Gilles Patriarche [†] , Dr Benoît Dubertret	Bianca Haberl ¹ , Jamie J. Molaison ² , Marshall T. Mc- Donnell ¹ , Eero Holmström ³ , Jörg C. Neuefeind ¹ , Chris J. Benmore ⁴ , Luke .L Daemen ¹ , Reinhard Boehler ^{1,5} , Matthew G. Tucker ¹
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assoc prof. xiaodong wang! ms. suya liu¹. prof. dongxan zhang'. dr; yula lvanisenko' 12. Degram dinayan zhang'. dr; yula lvanisenko' 12. Degram dinayan zhang'. dr; yula lvanisenko' 12. Degram dinayan zhang'. dr; yula lvanisenko' 12. Degram dinayan zhang'. dr; yula lvanisenko' 12. Degram dinayan zhang'. dr; yula lvanisenko' 12. Degram dinayan zhang'. dr; yula lvanisenko' 12. Degram dinayan zhang'. dr; yula lvanisenko' 13. Degram dinayan zhang'. dr; yula lvanisenko' 14. Degram dinayan zhang'. dr; yula lunisensho' 14. Degram dinayan zhang'. dr; yula lunisensho' 15. Degram dinayan zhang'. dr; yula lunisensho' 16. Degram dinayan zhang'. dr; yula lunisensho'		ATOMIC LEVEL STRUCTURAL MODIFICATIONS INDUCED BY SEVERE PLASTIC SHEAR DEFORMATION	VOLUME FRACTION ON THE 3D FAILURE MECHA-	ULTRA-THIN InN/GaN QUANTUM WELLS FROM	
Singopore Singapore Academy of Sciences, Warsaw, Poland. "Institute of Physics, Polish Academy of Sciences, Warsaw, Poland." Sciences, Warsaw, Poland. "Physics, Polish Academy of Sciences, Warsaw, Poland." Sciences, Polish, Moscow, Nessa; "REC -Function Protonics Center, Boston, USA." HIGHLIGHT EFFECT OF ULTRASONIC TREATMENT ON THE MICROSTRUCTURED OF BULK NANOSTRUCTURED OF BULK NANOSTRUCTURED OF BULK NANOSTRUCTURED MATERIALS PROCESSED BY SEVERE PLASTIC DEFORMATION. IN 3D BY LABORATORY DIFFRACTION CONTRAST TOMOGRAPHY Dr. Part I Nazarovi, Dr. Asiya Samigolilinal: Dr. Part I Nazarovi, Dr. Asiya Samigolilinal: Dr. Part I Nazarovi, Dr. Asiya Samigolilinal: Dr. Part I Nazarovi, Dr. Asiya Samigolilinal: Dr. Part I Nazarovi, Dr. Asiya Samigolilinal: NonDestructive of Bulk Nanostructure of Bulk Nanostructure of Bulk Nanostructure of Bulk Nanostructure of Bulk Nanostructure of Bulk Nanostructure of Bulk Nanostructure of Bulk Nanostructure of Contrast Nanostructure of Con	16.00	assoc. prof. xiaodong wang ¹ , ms. suya liu ¹ , prof.	<u>Dr Peifeng Li</u> i. Dr Ruoxuan Huang²	Dr Calliope Bazioti', Isaak Vasileiadis', Assist, Pro- fessor Julita Smalc-Koziorowska', Assoc, Professor Slawomir Kret [®] , Dr Emmanouil Dimakis', Professor Thomas Kehagias', Professor Theodoros Karakostas', Professor Theodore Moustakas', Professor Philomela	
### IN 3D BY LABORATORY DIFFRACTION CONTRAST TOMOGRAPHY TOMOGRAPHY TOMOGRAPHY TOMOGRAPHY TOMOGRAPHY TOMOGRAPHY		[†] Zhejiang University, Hangzhou, China	² Singapore Institute of Manufacturing Technology,	Academy of Sciences , Warsaw, Poland, ³ Institute of Physics, Polish Academy of Sciences, Warsaw, Poland, ⁴ Department of Electrical and Computer Engineering,	
Dr. Ramii Murzaevi, Dr. Alexander Zhityaevi, Aygul Mukhametgalinai ² , Dr. Yury Tsarenko ³ , Prof. Vasily Rubanik ³ Dr. Piotr Tauzowski ³ , Prof. Sawomir Kret ³ , MSc Anna Kaleta ² , Prof. Janusz Sadowski ^{2,3,4} Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Piotr Tauzowski ³ , Prof. Janusz Sadowski ^{2,3,4} Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Piotr Tauzowski ³ , Prof. Janusz Sadowski ^{2,3,4} Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Piotr Tauzowski ³ , Prof. Janusz Sadowski ^{2,3,4} Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Piotr Tauzowski ³ , Prof. Janusz Sadowski ^{2,3,4} Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Piotr Tauzowski ³ , Prof. Janusz Sadowski ^{2,3,4} Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Piotr Tauzowski ³ , Prof. Janusz Sadowski ^{2,3,4} Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Polish Academy of Sciences, Ul. Pawińskiego Sb. Warszawa, Polish Academy of Sciences, Ul. Pawińskiego Sb. Warszawa, Polish Academy of Science Mathon ² Prof. Mathon ² Prof. Mathon ² Prof. Mathon ² Prof. Mathon ² Prof. Mathon ² Prof. Mathon ² Prof. Mathon ² Dr. Non-Equilibrium Ab-Initio Molecular Dr. Non-Equilibrium Ab-Initio Molecular Dr. Non-Equilibrium Ab-Initio Molecular Dr. Non-Equilibrium Ab-Initio Molecular Dr.		EFFECT OF ULTRASONIC TREATMENT ON THE MICROSTRUCTURE OF BULK NANOSTRUCTURED MATERIALS PROCESSED BY SEVERE PLASTIC	IN 3D BY LABORATORY DIFFRACTION CONTRAST	OF CORE SHELL NANOWIRES CONTAINING	
Academy of Sciences, U.f. Russian Federation, 'Bash-kir State University, Ufa, Russian Federation, 'Bash-kir State University, Ufa, Russian Sciences of Belarus. States, 'Xnova Technology' Ap.S. Koge, Denmark States, 'Xnova Technology' Ap.S. Koge, Denmark Polish Academy of Sciences, u.l. Pawinskiego 5B, Warszawa, Poland, 'Institute of Physics, Polish Academy of Sciences, al. Lotników 32/46, Warszawa, Poland, 'MAX-IV laboratory, Lund University, P.O. Box 11B, Lund, Sweden, 'Department of Physics and Electrical Engineering, Linnaeus University, Relation of Physics and Electrical Engineering, Linnaeus University, Kalmar, Sweden MICROALLOYED STEEL LAMINATED COMPOSITE PROCESSED BY HIGH-STRAIN RATE COMPRESSION TEST IMAGING STRAIN FIELDS BY PTYCHOGRAPHIC TOPOGRAPHY SPONSOR PRESENTATION. JEOL – DEVELOPMENT OF A NEW GENERATION MULTI-PURPOSE TRANSMISSION ELECTRON MICROSCOPE: JEOL F2 M.Eng Marcin Kwiecień', M.Eng Remigiusz Błoniarz', M.Eng Szymon Bajda', Prof. Janusz Majta' Neng Szymon Bajda', Prof. Janusz Majta' Steven Van Petegem', Ana Diaz', Ainara Irastorza', Maxime Dupraz' 'AGH University of Science and Technology, Krakow, Poland None Equilibrium Ab-Initio Molecular DYN Simulation of Thermal Conductivity of Science (AICES), RWTH Aachen University 52072, Aachen, Germany, 'Institute for Advanced Study in Computation Engineering Science (AICES), RWTH Aachen University 52072, Aachen, Germany, 'Institute of Mineral Engine Division of Moterial Science and Engineering Scie	16.20	Dr. Ramil' Murzaev ¹ , Dr. Alexander Zhilyaev ¹ , Aygul' Mukhametgalina ^{1,2} , Dr. Yury Tsarenko ³ , Prof. Vasily	Holzner ¹ , Florian Bachmann ² , Alan Lyckegaard ² ,	Dr. Piotr Tauzowski ¹ , Prof. Sławomir Kret ² ,	
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M.Eng Szymon Bajda¹, Prof. Janusz Majta¹ Ainara Irastorza¹. Maxime Dupraz¹ 1/4GH University of Science and Technology, Krakow, Poland 1/2 Aghen Institute for Advanced Study in Computation Engineering Science (AICES), RMTH Aachen University 52072, Aachen, Germany, 'Institute of Mineral Engine Division of Materials Science and Engineering, Facult		PROCESSED BY HIGH-STRAIN RATE COMPRESSION TEST	TOPOGRAPHY	A NEW GENERATION MULTI-PURPOSE TRANSMIS- SION ELECTRON MICROSCOPE: JEOL F2	
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Georesources and Materials Engineering, RWTH Aac. University, 52072, Aachen, Germany	16.40		Paul Scherrer Institut, CH-5232 Villigen, Switzerland		Aachen Institute for Advanced Study in Computational Engineering Science (AICES), RWTH Aachen University, 52072. Aachen. Germany, *Institute of Mineral Engineering, Division of Materials Science and Engineering, Faculty of Georesources and Materials Engineering, RWTH Aachen University, 52072. Aachen, Germany

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But But	Room	Library Hall/M2	I -16/M1	Maurice Saltiel Hall I/M2	CR II Hall/M2
SIGNATION OF CONTROL O	Session Title	Session 8 - Micro/nano-mechanics of damage II	Defects and solutes in iron alloys	Advanced Modelling of Nuclear Structural Materials (III)	Deformation
Base Mary National Parks of the Common Street (Common Street) 11.00 11	Chairperson	Cem Tasan, Christophe Pinna	Joerg Neugenbauer	N. Castin	Ebrahimi-Agoras
15.00 16. Combinate ISSA Institute of Manufact Science, 79 Grandwallers Institute of Manufact Science, 79 Grandwallers Institute of Manufact Science, 79 Grandwallers The American Institute of Manufact Science, 7		'QUASI' IN-SITU INVESTIGATION OF COMPLEX-PATH	Fe-N AND Fe-C SYSTEMS; COMBINING INSIGHTS From experiment and DFT calculations	EFFECTS OF ION IRRADIATIONS ON THE MICRO- STRUCTURE OF AUSTENITIC STAINLESS STEELS:	MULTISCALE 3D SIMULATIONS OF DEFORMATIONS OF MICRO-SHAFTS USING CONTINUUM DISLOCA-
Project Proj	15.00	Cem Tasan ¹ , Emeric Plancher ¹ , Niels Vonk ¹			
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Page March Earl Cycl Lengton Sylvan Holis Page March Electron Sylvan Collement Page		IRRADIATED NUCLEAR FUEL MATERIAL MODEL AT	γ-Fe4N, a"-Fe16N2 AND ε-FE3N1+y PRECIPITATES		RATES OF DISLOCATION INTERACTIONS IN NANO-
### PROPERTY OF THE PROPERTY O	15.20			CEA, Université Paris-Saclay, Gif-sur-Yvette, France, ² DEN-Service de Recherches Métallurgiques Appli- quées, CFA, Université Paris-Saclay, Gif-sur-Yvette	Dr. Dupraz Maxime ¹ , Dr. Zhen Sun ^{1,2} , Dr. Christian Brandl ¹ , Pr. Dr. Helena Van Swygenhoven ^{1,2}
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Warshedowner, Prof. Dr. Gerhard Debmi Dr. Frederic Sossoon, 'Dr. Cyrille Barretous'		SETUP OF A MICROSCALE HIGH TEMPERATURE LOADING RIG FOR MICRO-FRACTURE MECHANICS	PROPERTIES IN Fe-Co AND Fe-Mn ALLOYS FROM		RESPONSE AND FIELD STATISTICS IN ELASTO-
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SITU MIGROCANTILEVER TESTS RADIATION RESISTANT ALLOYS. APPLICATION TO A PHA-Fe Dan Sormsen'?, Jesse Picchiar' Bernie Li', Joseph Levider' L. Messina. Dr. Andrea Sand'?, Dr. Fredric Granberg'; Jesper Byggmastar', Prof Kai Nordlund' Prof. Konstantinos Teerpes'. Mr. Vasilis Tzatzadal Prof. Konstantinos Teerpes'. Mr. Vasilis Tzatzadal Prof. Konstantinos Teerpes'. Mr. Vasilis Tzatzadal Prof. Konstantinos Teerpes'. Mr. Vasilis Tzatzadal Prof. Konstantinos Teerpes'. Mr. Vasilis Tzatzadal Prof. Konstantinos Teerpes'. Mr. Vasilis Tzatzadal Prof. Konstantinos Teerpes'. Mr. Vasilis Tzatzadal Prof. Konstantinos Teerpes'. Mr. Vasilis Tzatzadal Prof. Konstantinos Teerpes'. Mr. Vasilis Tzatzadal Prof. Konstantinos Teerpes'. Mr. Vasilis Tzatzadal Prof. Konstantinos Teerpes'. Mr. Vasilis Tzatzadal Prof. Konstantinos Teerpes'. Mr. Vasilis Tzatzadal Prof. Konstantinos Teerpes'. Mr. Vasilis Tzatzadal Prof. Konstantinos Teerpes'. Mr. Vasilis Tzatzadal University of Helsinki, Finland University of Helsinki, Finland University of Helsinki, Finland University of Helsinki, Finland University of Helsinki, Finland What Governor Dead Tourney (Tourne)			CEA, Université Paris-Saclay, Gif sur Yvette, France, ² SPEC, CEA, CNRS, Université Paris-Saclay, Gif sur	'China Institute Of Atomic Energy, Beijing, China	'University of Thessaly, Volos, Greece
Selevick_Encilinistals_Danel Kiemer*, Prof. Antonio Ramirez*, Douglas Stauffer* Jesper Byggmästar*, Prof Kai Nordlund*			RADIATION RESISTANT ALLOYS:		THERMAL AND ELECTRICAL PROPERTIES OF CNT/ POLYMER MULTIFUNCTIONAL NANOCOMPOSITES
University, Columbus, USA: *Iquidmetal Technologies, Rancho Sanid Margarita, USA: *Wenter, Eden Prairie, USA: *Mentan Universitat - Leoben, Leoben, Austria NANOFATIGUE INVESTIGATIONS ON HIERARCHICALLY STRUCTURED ZIRCONIA CERAMICS MSC Cecilia Mueller¹, DrIng, Anke Maerten¹, Prof. [UHI] Dr. rer. nat. Wolf-Dieter Mueller², Prof. DrIng. Claudia Fleck! MSC Cecilia Mueller¹, DrIng, Anke Maerten¹, Prof. [UHI] Dr. rer. nat. Wolf-Dieter Mueller², Prof. DrIng. Claudia Fleck! **Institute Of Technology Berlin, Berlin, Germany.	16.00	Stevick ³ , Eric Hintsala ⁴ , Daniel Kiener ⁵ , Prof. Antonio	Dr. Thomas Schuler L. Messina, P. Olsson, M. Nastar		Prof. Konstantinos Tserpes¹, Mr. Vasilis Tzatzadakis¹
STRUCTURED ZIRCONIA CERAMICS ION-IRRADIATED MODEL Fe-3at.%Ni ALLOY MICROSCOPY FOR MULTI-SCALE MATERIALS SCIENCE MICROSCOPY FOR MULTI-SCALE MATERIALS SCIENCE MICROSCOPY FOR MULTI-SCALE MATERIALS SCIENCE MICROSCOPY FOR MULTI-SCALE MATERIALS SCIENCE PhD student Lisa Belkacemii, Researcher Estelle Meslin', Researcher Jean Henry', Researcher Bertrand Radiguet', Researcher Bertrand Radiguet', Researcher Bergitte Décamps' Institute Of Technology Berlin, Berlin, Germany, 'Charité - Universitidismedizin Berlin, Berlin, Germany Institute Of Technology Berlin, Berlin, Germany Institute Of Technology Berlin, Berlin, Germany Institute Of Technology Berlin, Berlin, Germany Institute Of Technology Berlin, Berlin, Germany Institute Of Technology Berlin, Berlin, Germany Institute Of Technology Berlin, Berlin, Germany Institute Of Technology Berlin, Berlin, Germany Institute Of Technology Berlin, Berlin, Germany Institute Of Technology Berlin, Berlin, Germany Institute Of Technology Berlin, Berlin, Germany Institute Of Technology Berlin, Berlin, Germany Institute Of Technology Berlin, Berlin, Germany Institute Of Technology Berlin, Berlin, Germany Institute Of Technology Berlin, Berlin, Germany Institute Of Technology Berlin, Berlin, Germany Institute Of Electric Power Indust Institute Of Electric P		University, Columbus , ÚSA, ³Liquidmetal Technologies, Rancho Santa Margarita, USA, ⁴Bruker, Eden Prairie,		¹ CCFE, UK, ² University of Helsinki, Finland	'University Of Patras, Patras, Greece
Carl Zeiss Microscopy, Pleasanton, United States, Paral Mart Governs Plant Martensite in Steels? Dr. Lars-Oliver Kautschor², Dr. Arno Merkle¹					MICROSCOPY FOR MULTI-SCALE MATERIALS
### Rouen, Rouen, Rouen, France, **CSNSM, Université Paris Sud. ### Orsay, France ### WHAT GOVERNS PLASTICITY AND DAMAGE ### OF LATH MARTENSITE IN STEELS? ### MOLECULAR DYNAMICS SIMULATION OF SHEAR ### DEFORMATION AND PRECIPITATION STRENGTNNI ### NOUCED DEFECTS IN Fe-Ni ALLOYS ### Mount of Molecular Dynamics Simulation of Shear ### DEFORMATION AND PRECIPITATION STRENGTNNI ### AGOUNDARIES ### Marc Geers**, Dr. Varvara Kouznetsova*. ### Dr Toshiharu Ohnuma* ### Marc Geers**, Prof. William Curtin* ### Marc Geers**, Prof. William Curtin* #### Universitat Politecnica De Catalunya, Barcelana, Spain, ** Central Research Institute Of Electric Power Indust ** Yokosuka, Japan** ##################################	16.20	(UH) Dr. rer. nat. Wolf-Dieter Mueller ² , Prof. DrIng.		Meslin ¹ , Researcher Jean Henry ¹ , Researcher Ber-	
Dr. Francesco Maresca', Dr. Varvara Kouznetsova'. Prof. Marc Geers', Prof. William Curtin' 16.40 Dr. Francesco Maresca', Dr. Varvara Kouznetsova'. Prof. Marc Geers', Prof. William Curtin' Dr Yuri Osetsky' 1 Universitat Politecnica De Catalunya, Barcelana, Spain, Januari, Dr Tomohisa Kumagai', Dr Toshiharu Ohnuma' 1 Universitat Politecnica De Catalunya, Barcelana, Spain, Januari, Dr Tomohisa Kumagai', Dr Toshiharu Ohnuma' 1 Universitat Politecnica De Catalunya, Barcelana, Spain, Januari, Dr Tomohisa Kumagai', Dr Toshiharu Ohnuma' 1 Universitat Politecnica De Catalunya, Barcelana, Spain, Januari, Dr Tomohisa Kumagai', Dr Toshiharu Ohnuma'				Rouen, Rouen, France, ³ CSNSM, Université Paris Sud,	¹ Carl Zeiss Microscopy, Pleasanton, United States, ² Carl Zeiss Microscopy, Oberkochen, Germany
Prof. Marc Geers ² , Prof. William Curtin ³ Dr Yuri Osetsky ² Dr Toshiharu Ohnuma ³ Ecole Polytechnique Federale De Lausanne (EPFL), Lausanne, Switzerland, ² Eindhoven University of ³ Materials Science and Technology Division, Oak Ridge Yokosuka, Japan					DEFORMATION AND PRECIPITATION STRENGTHNING
Lausanne, Switzerland, ² Eindhoven University of ² Materials Science and Technology Division, Oak Ridge Yokosuka, Japan	16.40				
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Symposium	E3	E4	F2
Room	Rehearsal Room 5.17/M1	Conference Room 2/M1	3-21/M1
Session Title	Photovoltaics-New Materials II	Fuel cladding	Biomaterials for Therapeutic Delivery II
Chairperson	Euripides Hatzikraniotis	Dirk Engelberg	Miguel Manzano
	HIGHLIGHT CUPROUS OXIDE AS ABSORBER LAYER IN HETEROJUNCTION SOLAR CELLS	ULTRAFINE-GRAINED TYPE 316L-BASED OXIDE DISPERSION STRENGTHENED STEEL	MODULAR ULTRASOUND-RESPONSIVE NANOPARTICLES FOR DRUG DELIVERY
15.00	Prof B.G. Svensson ¹ , Dr K. Bergum ¹ , MSc H.N. Riise ¹ , Dr R. Kumar ¹ , Dr A. Galeckas ¹ , Dr S. Gorantla ¹ , Prof A.E. Gunnæs ¹ , MSc P.F. Lindberg ¹ , MSc J. Gan ¹ , MSc M. Nyborg ¹ , MSc J. M. Bentsen ¹ , Prof E.V. Monakhov ¹ , Dr I.J.T. Jensen ² , Dr, Prof O.M. Løvvik ^{2,1} , Dr, Prof S. Diplas ²	<u>Dr. Jinsung Janq'</u> , Dr. Xiaodong Mao ² , Dr. Suk Hoon Kang ¹ , Dr. Tae Kyu Kim ¹	Juan L. Paris 12, M. Victoria Cabañas 1, Miguel Manzano 12, María Vallet-Regi 12
	¹ University of Oslo, Physics Department, SMN, Oslo, Norway, ² SINTEF Materials and Chemistry, Oslo, Norway	¹ Korea Atomic Energy Research Institute, Daejeon, South Korea, ² Institute of Nuclear Energy Safety Technology, CAS, Hefei, China	¹Dpto. Química Inorgánica y Bioinorgánica, Facultad de Farmacia, UCM, Instituto de Investigación Sanitaria Hospital 12 de Octubre i+12., Madrid, Spain, ²Centro de Investigación Biomédica en Red de Bioingenieria, Biomateriales y Nanomedicina (CIBER-BBN), Spain
	STRUCTURAL CHARACTERISATION OF (Ag1-xCux)2ZnSnSe4 By Neutron diffraction	IRRADIATION BEHAVIOUR OF HIGH-ENTROPY ALLOY THIN FILMS FOR COATING NUCLEAR FUEL CLADDINGS	DESIGN AND MANUFACTURE OF ENGINEERED MULTIFUNCTIONAL STRUCTURES FOR THE BENIGN BIOACTIVATION OF CYTOTOXIC AGENTS FOR HIGHLY LOCALIZED CANCER TREATMENT
15.20	Galina Gurieva ¹ , Alexandra Franz ¹ , Susan Schorr ^{1,2}	BSc MSc Matheus A. Tunes ¹ , <u>BSc MSc PhD Vladmir Vishnyakov</u> ¹ , MPhys PhD Jonathan A. Hinks ¹ , BSc MSc PhD Stephen E. Donnelly ¹	Mr. Mohammad Alqahtani ¹ , Dr. Carmen Torres-Sánchez ¹ , Dr Asier Unciti-Broceta ² , Dr. Ana Perez-López ²
	'Helmholtz-Zentrum Berlin, Berlin, Germany, ² Freie Universitat Berlin, Berlin, Germany	'School of Computing and Engineering, University of Huddersfield, Huddersfield, United Kingdom	'Loughborough University, Loughborough, United Kingdom, 'The University of Edinburgh, Edinburgh, United Kingdom
	ASSESSMENT OF ELEMENTAL DISTRIBUTIONS AT LINE AND PLANAR DEFECTS IN Cu(In,Ga)Se ² THIN FILMS BY ATOM PROBE TOMOGRAPHY	THE EFFECT OF DIFFERENT THERMO-MECHANICAL STATES ON THE DISSOLUTION BEHAVIOUR OF 15-15TI FUEL CLADDING TUBES IN CONTACT WITH STATIC LBE	SMART MATERIAL BASED ON TRANSPORT NANOPARTICLES WITH TRIGGER EFFECT OF MAGNETIC DECAPSULATION FOR TARGET DRUG DELIVERY
15.40	Dr. Oana Cojocaru Miredin ¹² , Dr. Torsten Schwarz ² , Dr. Daniel Abou-Ras ³	Evangelia Charalampopoulou ¹² , Dr. Rémi Delville ¹ , Dr. Konstantina Lambrinou ¹ , Niels Cautaerts ¹² , Prof. Dominique Schryvers ²	Dr Elena Zemtsova ¹ , Dr Maxim Shevtsov ² , <u>PhD student Alexsandra</u> <u>Ponomareva</u> ¹ , PhD Andreii Arbenin ¹ , Prof. Vladimir Smirnov ¹
	¹Rwth Aachen University, Aachen, Germany, ²Max-Planck Institut für Eisenforschung GmbH, Düsseldorf, Germany, ²Zentrum Berlin für Materialien und Energie GmbH, Berlin, Germany	¹ SCK-CEN, Mol. Belgium, ² Antwerpen Universiteit, Antwerp, Belgium	'Saint Petersburg State University, Saint Petersburg, Russia. 'Institute of Cytology of the Russian Academy of Sciences, Saint Petersburg, Russia
	THE EFFECT OF SULFURIZATION ON CO-EVAPORATED Cu2ZnSnSe4 THIN FILM SOLAR CELLS	OXIDE NANOCERAMIC COATINGS FOR LEAD-COOLED FAST REACTORS	FOREFRONT OF ADVANCED DESIGN OF CARBON NANOCAPSULES FOR CANCER THERAPY AND BIOIMAGING
16.00	<u>Dr Raquel Caballero</u> ¹ , Dr Yudania Sánchez ² , Dr Florian Oliva ² , Dr Victor İzquierdo ² , Dr Marcel Placidi ² , Dr José Manuel Merino ¹ , Prof. Dr. Máximo León ¹	Dr. Francisco Garcia Ferre ¹ , Dr. Alexander Mairov ² , <u>Mr. Matteo Vanazzi</u> , Mr. Serena Bassini ² , Dr. Mariano Tarantino ² , Dr. Pietro Agostini ² , Dr. Luca Ceseracciu ⁴ , Dr. Yves Serruys ² , Dr. Frédéric Lepretre ⁸ , Dr. Lucile Beck ² , Dr. Kumar Sridharan ² , Dr. Fabio Di Fonzo ¹	<u>Dr Gil Gonçalves</u> ¹ , Dr Stefania Sandoval ¹ , Dr Gerard Tobias ¹
	'Universidad Autónoma de Madrid, Madrid, Spain, ² IREC, Catalonia Institute for Energy Research, Barcelona, Śpain	'Center for Nano Science and Technology @PoliMi. Istituto Italiano di Tecnologia, Milano, Italy, 'Department of Engineering Physics, University of Wisconsin-Madison, Madison, USA, 'ENEA-FSN-ING Division, C.R. Brasimone, Camugnano, Italy, 'Smart Materials, Nanophysics, Istituto Italiano di Tecnologia, Genova, Italy, 'Service de Recherches de Métallurgie Physique, Laboratoire JANNUS, CEA, DEN, F-9 ^{ng} Gif-Sur-Yvette, France	'Institut de Ciència de Materials de Barcelona, Barcelona/Bellaterra, Spain
	ELECTRICAL CONDUCTIVITY OF Cu2ZnSn(S1-xSex)4 (X = 0.5 – 1.0) SOLID SOLUTIONS: INFLUENCE OF ORDER PARAMETER	RELATIONSHIP BETWEEN MICROSTRUCTURE AND MECHANICAL PROPERTIES OF HEAT TREATED 15-15TI AUSTENITIC STAINLESS STEEL FOR NUCLEAR FUEL CLADDING APPLICATION	NANOEMULSION-BASED CHITOSAN NANOCAPSULES AS ANTIBIOTIC DELIVERY SYSTEM
16.20	Galina Gurieva¹, Maxim Guc², Elena Hajdeu-Chicarosh², Daniel M. Többens¹, Ernest Arushanov², Susan Schorr¹,3	Niels Cautaerts ¹² , Dr. Remi Delville ¹ , Dr. Erich Stergar ¹ , Prof. Dominique Schryvers ² , Dr. Marc Verwerft ¹	I <u>nés Serrano-Sevilla</u> ¹, Sonia García-Embid¹, Laura De Matteis²³, Ainhoa Lucía⁴⁵s, José Antonio Ainsa⁴587, Jesús M. de la Fuente¹³
	"Helmholtz-Zentrum Berlin, Berlin, Germany, "Institute of Applied Physics, Academy of Sciences of Moldova, Chisinau, Republic of Moldova, "Freie Universitat Berlin, Berlin, Germany	'Sck-cen, Mol. Belgium, ² University of Antwerp, Antwerp, Belgium	Instituto de Ciencia de Materiales de Aragón (ICMA), Universidad de Zaragoza-CSIC, Zaragoza, Spain, Instituto de Nanociencia de Aragón (IMA), Universidad de Zaragoza, Spain, Zaragoza, Spain, Zaragoza, Spain, Zaragoza, Spain, Zaragoza, Spain, Zaragoza, Spain, Zaragoza, Spain, Zaragoza, Spain, Zaragoza, Spain, CIBER de Enfermedades Respiratorias (CIBERES), Instituto de Salud Cartos III, "Departamento de Microbiologia, Facultad de Medicina, Universidad de Zaragoza, Zaragoza, Spain, Instituto de Investigación Sanitaria de Aragón (IS-Aragón), Zaragoza, Spain, Instituto de Diccomputación y Fisica de Sistemas Complejos, BIFI, Universidad de Zaragoza, Zaragoza, Spain, Instituto de Investigación Sanitaria de Aragón (IS-Aragón), Zaragoza, Spain, Instituto de Diccomputación y Fisica de Sistemas Complejos, BIFI, Universidad de Zaragoza, Zaragoza, Spain
	BORON SOLID SOLUTION IN ³ C-SiC FOR INTERMEDIATE-BAND SOLAR CELLS		CHARGE CONVERSION NANOCARRIERS BASED ON AMPHIPHILIC POLYPEPTIDES
16.40	Dr. Patricia Carvalho', Dr. Annett Thøgersen', Dr. Quanbao Ma², Dr. Augustinas Galeckas², Dr. Alexander Azarov², Dr. Daniel Wright', Dr. Spyros Diplas', Dr. Valdas Jokubavicius³, Dr. Jianwu Sun³, Dr. Mikael Syväjärvi³, Dr. Bengt Svensson², Dr. Ole Martin Lovikk¹,²		Héctor Soria ² , Arantxa Agote ² , Dr P ilar Romero ² , Dr Jesús M. de la Fuente ^{2,2} , Dr Rafael Martín-Rapún ¹
	"SINTEF MK, Oslo, Norway, *University of Oslo, Department of Physics, Centre for Materials Science and Nanotechnology, Oslo, Norway, *Linköping University, Department of Physics, Chemistry and Biology, Linköping, Sweden		'Fundación Instituto de Nanociencia de Aragón, Universidad de Zaragoza, Zaragoza, Spain, ³Instituto de Ciencia de Materiales de Aragón, Universidad de Zaragoza / CSIC, Zaragoza, Spain, °Centro de Investi- gación Biomédica en Red en Bioingenieria, Biomateriales y Nanomedicina (CIBER-BBN), Madrid, Spain

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Symposium	A2	A5	A7	B1
Room	I-11/M1	MOYSA Hall/M2	I-08/M1	Conference Room 3/M1
Session Title	Nanomagnetism & Properties	Self-assembly	Carbon based materials II and Catalysis	Bainitic Steels II
Chairperson	I. Galanakis	Kevin Ryan	Ana Cremades	Mark Rainforth
	HIGHLIGHT NANOLAMINATED MAX PHASE MAGNETS	HIGHLIGHT SELF-ASSEMBLY OF BRANCHED NANOCRYSTALS: A CLOSER VIEW ON THE ROLES OF THEIR GEOMETRY AND OF LIGAND DISTRIBUTION	KEYNOTE/INVITED FUNCTIONAL TITANIA FOR IMPROVED AIR AND HEALTH QUALITY	HIGHLIGHT AUSFORMING: CHALLENGES AND DEVELOPMENTS FOR NANOSTRUCTURED BAINITE
17.30	Dr. Ulf Wiedwald ¹ , Dr. Ruslan Salikhov ¹ , Quanzheng Tao ² , Dr. Arni S. Ingason ² , Dr. Dieter Weller ¹ , Prof. Johanna Rosén ² , Prof. Michael Farle ² , ³	Andrea Castelli ¹ , Dr. Joost de Graaf ^c , Prof. Liberato Manna ¹ , <u>Dr. Milena P. Arciniegas¹</u>		Dr. Carlos Garcia-Mateo¹, Dr. Mahesh Somani², Prof. David A. Porter², Dr. Georg Paul³, Dr. Andreas Latz², Ms Adriana Eres-Castellanos¹, Dr. Francisca G. Caballero¹
	¹ Faculty of Physics and Center for Nanointegration (CENDE). University of Duisburg-Essen. Duisburg. Germany. ² Thin Film Physics, Department of Physics. Chemistry and Biology (IFM). Linköping University. Linköping, Sweden. ² Center for Functionalized Magnetic Materials (Fundayla). Immanuel Kant Baltic Federal University (IKBFU). Kaliningrad, Russia	¹ Istituto Italiano di Tecnologia, Genoa, Italy, ² Institute for Computational Physics (ICP), University of Stuttgart, Stuttgart, Germany	Dr. Vassilis Binas¹	¹ CENIM-CSIC, Madrid, Spain, ² University of Oulu, Oulu, Finland, ³ Thyssenkrupp Steel Europe, Duisburg, Germany, ⁴ ArcelorMittal Global R&D, Ghent, Belgium
	HIGHLIGHT OPTIMIZING THE EXCHANGE BIAS PROPERTIES OF BI-MAGNETIC NANOPARTICLES WITH CORE/SHELL MORPHOLOGY	FORMATION OF COLLOIDAL COPPER INDIUM Sulfide Nanosheets by Two-Dimensional Self-Organization	. ¹ Forth, Heraklian, Crete, Greece	CHARACTERISATION OF ISOTHERMALLY FORMED BAINITE MICROSTRUCTURES IN 51C+V4 SPRING STEEL
17.50	<u>Dr Kalliopi Trohidou</u> ¹, Dr Marianna Vasilakaki¹	Anne Berends ¹ , Hans Meeldijk ¹ , Celso de Mello Donega ¹	TOTAL, TOTAL	Ir. Constantinos Goulas ¹² , Ir. Ankit Kumar ¹³ , Dr. Maria Giuseppina Mecozzi ¹ , Dr. Michael Herbig ³ , Prof.dr.ir. Jilt Sietsma ¹
	¹ Institute of Nanoscience and Nanotechnology, NCSR 'Demokritos', Athens, Greece	¹ Utrecht University, Utrecht, Netherlands		¹ Delft University of Technology, Delft, Netherlands, ² Materials innovation institute (M2t), Delft, Netherlands, ³ Max-Planck-Institut für Eisenforschung, Dusseldorf, Germany
	HIGHLIGHT IMPROVED PERFORMANCE OF ASSEMBLIES OF MAGNETIC NANOCRYSTALS FOR HEAT DELIVERY AND MAGNETIC GUIDANCE APPLICATIONS	SOLVENT POLARITY DRIVEN VARIED INTERACTION BETWEEN LONG CHAIN ALIPHATIC THIOLS AND FLUORESCENT ASSEMBLY	DIFFERENCES IN THE YIELD OF CARBON NANO- TUBES USING TRANSITION METAL CATALYSTS	INFLUENCE OF CARBIDE ON THE MICROSTRUCTURE FORMATION AND PHASE TRANSFORMATION OF NANO-BAINTE IN BEARING STEEL
18.10	<u>Dr Veronica Salgueiriño</u> ¹	Ms Jayasmita Jana¹	<u>Dr. Rama Balasubramanian</u> ¹, Mr Brian Ruane	Dr. Zhinan Yang ¹ , Prof. Fucheng Zhang ¹ , Dr. Yanhui Wang ¹ , Dr. Mingming Wang ¹
	¹ Departamento de Física Aplicada, Universidade De Vigo, Vigo, Spain	¹Indian Institute of Technology Kharagpur, Kharagpur, India	'Roanoke College, Salem, USA	¹Yanshan University, Qinhuangdao, China
	HIGHLIGHT MAGNETIC NANOPARTICLES UNDER AC FIELDS - BROWNIAN CONTRIBUTION TO HEAT DISSIPATION	ASSEMBLY OF SULFIDE-BASED NANOPARTICLES INTO GELS AND AEROGELS	CONTROL OVER THE CONDUCTIVITY OF TRANSPARENT MXENES	INFLUENCE OF TEMPERING CYCLE ON MICROSTRUCTURE EVOLUTION DURING TEMPERING OF HIGH STRENGTH STEELS
18.30	David Serantes ^{1,2} , Roy Chantrell ¹ , Daniel Baldomir ² , Akira Satoh ³	Taisiia Berestok ^{1,2} , Dr. Pablo Guardia ^{1,4} , Dr. Michaela Meyns ³ , Javier Blanko ² , Lluis López-Conesa ² , Dr. Sonia Estrade ² , Prof. Stephanie L. Brock ³ , Prof. Francesca Peiro ² , Prof. Andreu Cabot ¹ , ⁵	Dr. Florian M. Römer', Dr. Ulf Wiedwald', Tanja Strusch', Dr. Joseph Halim², Elisa Mayerberger², Prof. Dr. Michel Barsoum², Prof. Dr. Michael Farle¹	<u>Seyyed Hesamodin Talebi</u> ¹, Hadi Ghasemi Nanesa¹, Professor Mohammad Jahazi¹
	'Department of Physics, University of York, York, United Kingdom, 'Instituto de Investigacións Tecnolóxicas and Applied Physics Department, Universidade de Santiago de Compostela, Santiago de Compostela, Spain, 'Faculty of System Science and Technology, Akita Prefecture University, Yuri-honjo, Japan	'Catalonia Institute For Energy Research, Barce- lona, Spain, 'LENS, MIND-IN'-UB, Departament d'Electrionica, University of Barcelona, Spain, 'Department of Chemistry, Wayne State University, Detroit, USA, 'Centre Tecnològic de la Química de Catalunya, Tarragona, Spain, 'Institució Catalana de Recerca i Estudis Avançats - ICREA, Barcelona, Spain	'Experimental Physics. AG Farle. University Duis- burg-Essen, Duisburg, Germany, 'Drexel University, Philadelphia, United States of America	'École De Technologie Supériere, Montreal, Canada
	HIGHLIGHT DECIPHERING THE WORKINGS OF MAGNETIC NANOPARTICLES BY UNRAVELING THEIR INTRICATE LOCAL STRUCTURE	THREE-DIMENSIONAL METAMATERIALS MADE FROM ENGINEERED OLIGONUCLEOTIDES AND NANOPARTICLES	THE STRATEGIES OF BNO NANOPARTICLES SYNTHESIS FOR PROMISING CATALYSTS	EFFECT OF DIFFERENT HEAT TREATMENT PROCEDURES ON TOUGHNESS AND DUCTILITY OF NANOSTRUCTURED BAINITIC STEELS
	Mr George Antonaropoulos ¹² , Mr Konstantinos Brintakis ¹³ , Dr Emil Bozin ⁴ , Dr Milinda Abeykoon ⁵ , Dr Giovanni Ausanio ⁶ , Dr Vincenzo lannotti ⁶ , Dr Kalliopi Trohidou7, <u>Dr Alexandros Lappas</u> ¹	Miss AF De Fazio¹, Dr Afaf H. El-Sagheer²³, Prof Tom Brown², Prof Otto Muskens¹, Dr Antonios Kanaras¹	Dr. Andrey Kovalskii ¹ , Dr. Andrei Matveev ¹ , Dr. Irina Sukhorukova ¹ , Mr. Konstantin Firestein ¹ , Mr. Alexander Steinman ¹ , Dr. Oleg Lebedev ² , Prof. Dmitry Shtansky ¹ , Prof. Dmitri Golberg ³	<u>Dr. Behzad Avishan</u> ¹ , Professor Sasan Yazdani ² , Maryam Kabirmohammadi ²
18.50	Institute of Electronic Structure and Laser, Foundation for Research and Technology - Hellas, Heraklion. Greece, ³ Department of Chemistry, University of Crete, Heraklion. Greece, ⁴ Department of Physics, Aristotle University of Thessoloniki, Thessoloniki, Greece, ⁴ Condensed Matter Physics and Matterial Science Department, Brookhaven National Laboratory, Upton, USA, ⁴ Photon Sciences Division, National Synchrotron Light source II. Brookhaven National Laboratory, Upton, USA, ⁵ Department of Physics, ⁵ E. Pancini, ⁶ E CRR-SPIN, University of Naples ⁷ Federica II. ⁷ Naples, Italy, ⁸ Institute of Nanoscience and Nanotechnology, NCSR, ⁷ Demokritos, ⁷ Aghia Paraskevi, Greece	¹ Physics and Astronomy, University Of Southampton, Southampton, United Kingdom, ² Department of Chemistry, Chemistry Research Laboratory, University of Oxford, Oxford, United Kingdom, ² Chemistry Branch, Department of Science and Mathematics, Faculty of Petroleum and Mining Engineering, Suez, Egypt	'National University Of Science And Technology 'MISiS', Moscow, Russian Federation, *CRISMAT, UNR 6508, CNRS-ENSICAEN, Caen, France, *National Institute for Materials Science, Tsukuba, Japan	[†] Department of Materials Engineering. Azarbaijan Shahid Madani University, Tabriz, Iran , ² Faculty of Materials Engineering. Sahand University of Technology, Tabriz, Iran
	CONTINUOUS MILLIFLUIDIC SYNTHESIS OF MONODISPERSE Fe/FexOy NPs	FABRICATION OF ISOLATED 3D PLASMONIC MICRO STRUCTURED SUPERCRYSTALS ARRAYS FOR SERS DETECTION	SYNTHESIS AND CHARACTERIZATION OF ZnO HIERARCHICAL NANOPARTICLES AND RE DOPED ZnO NANOPARTICLES WITH ENHANCED PHOTOCATALYTIC ACTIVITY (Re: Ce, Ru)	
	Dr Katerina Loizou ¹ , Dr Stephanos Mourdikoudis ² , Dr Alec LaGrow ² , Professor Nguyen Thanh ² , Professor Asterios Gavriilidis ¹	<u>Dr. Nicolas Pazos Perez</u> ¹. Prof. Ramon Alvarez Puebla¹²	G. Flores-Carrasco¹², M. Rodríguez-Peña³, A. Urbieta³, Professor Paloma Fernández³, O. Milosevic⁴, <u>María Eugenia Rabanal</u> ¹	
19.10	Department of Chemical Engineering, University College London, London, United Kingdom, *Biophysics Group, Department of Physics and Astronomy and UCL Healthcare and Biomagnetic and Nanomaterials Laboratories, University College London Laboratories, London, United Kingdom	Department Of Physical Chemistry And Inorganic, Universitat Rovin'd Virgili, Tarragona, Spain, 'Anstitucio Catalana de Recerca i Estudis Avançats (ICREA), Barcelona, Sapin	University Carlos III of Madrid and IAAB, Dept. of Materials Science and Engineering and Chemical Engineering, Avda. Universidad 30, 28911 Leganes, Madrid, Spain, Madrid, Spain, 2CIDS-ICLIAP Benemerita Universidad Autónoma de Puebla, Av. San Claudio y 14 sur, Edif. 103C C.U., Col. San Manuel, Puebla 72570, México, Mexico, Departamento Fisica de Materiales, fac. Ciencias Fisicas, Universidad Complutense, Ciudad Universitaria, 280540 Madrid, Spain, Madrid, Spain, *Institute of Technical Sciences of the Serbian Academy of Sciences and Arts, Knez Mihailova 35/IV, 11000 Belgrade, Serbia, Belgrade, Serbia	



Symposium	B2	В3	В7	B8
Room	Aimilios Riadis Hall/M2	CR I Hall/M2	CR III Hall/M2	Conference Room 1/M1
Session Title	Advanced Characerization Methods for Light Metals	Polycrystalline Ni Base Superalloys III	Structures, Processing, and Fabrication of MOF Composites	Phase Stability
Chairperson	Dymtro Orlov	P. Tsakiropoulos	Caroline Mellot-Draznieks	Sergiy Divinski
	HIGHLIGHT REVEALING THE MELTING AND SOLIDIFICATION BEHAVIOUR OF LIGHT METALS USING IN SITU SYNCHROTRON X-RAY IMAGING	STRAIN-INDUCED PRECIPITATION ANALYSIS OF DELTA-PROCESSING IN AN INCONEL 718 SUPERALLOY	HIGHLIGHT THE DEVELOPMENT OF A CSD SUBSET: A COLLECTION OF METAL-ORGANIC FRAMEWORKS FOR PAST, PRESENT AND FUTURE	FORMULATING HIGH ENTROPY ALLOYS: CRITERIA AND EXPERIMENTS FOR SELECTED APPLICATIONS
17.30	Professor Peter Lee ¹² , Dr Alex Leung ¹² , Dr Biao Cai ¹² , Dr Enyu Guo ¹² , Mr Sebastian Marussi ¹² , Dr Robert Atwood ² , 3	Martha P Guerrero Mata¹, Pedro Paramo Kañetas², Jessica Calvo², Utkudeniz Ozturk², Jose Ma Cabrera²	Dr. Peyman Moghadam ¹ . Ms. Aurelia Li ¹ , Dr. Seth Wiggin ² . Mr Andi Tao ¹ , Dr. Andrew Maloney ² . Dr. Peter Wood ² , Dr. Suzanna Ward ² , Dr. David Fairen-Jimenez ¹	Dr. Marco Gabriele Poletti ¹ , Dr. Gianluca Fiore ¹ , <u>Prof. Livio Battezzati¹</u>
	'School of Materials. The University Of Manchester, Manchester, United Kingdom, 'Research Complex at Harwell, Harwell, United Kingdom, 'Diamond Light Source, Harwell, United Kingdom	¹ Universidad Autonoma De Nuevo Leon, San Nicolas De Los Garza, Mexico, ² Universitat Politècnica de Catalunya, Barcelona, Spain	¹ University of Cambridge, Cambridge, United Kingdom, ² Cambridge Crystallographic Data Centre (CCDC), Cambridge, United Kingdom	'Università di Torino, Torino, Italy
	NANOPARTICLE RESTRICTED DENDRITIC EVOLUTION IN Mg-Zn-AI ALLOYS REVEALED BY SYNCHROTRON TOMOGRAPHY	STRESS SERRATIONS DURING TENSILE TESTS OF NICKEL BASED ALLOY X750: EFFECT OF VACUUM	NOVEL METAL ORGANIC FRAMEWORKS BASED ON TETRATOPIC LINKERS AND Zr(IV)/Hf (IV) METAL CLUSTERS WITH HIGH CONNECTIVITY	SHORT-RANGE ORDER IN HIGH-ENTROPY ALLOYS: THEORETICAL FORMULATION AND APPLICATION TO Mo-Nb-Ta-V-W SYSTEM
17.50	Dr. Enyu Guo¹², Dr. Sansan Shuai¹, Dr. Daniil Kazantsev¹², Dr. Biao Cai¹², Dr. Andre Phillion⁴, Dr. Tao Jing³, Dr. Peter Lee¹²	<u>Djamel Kaoumi</u> i, Christopher Marsh ²	Mrs Giasemi Angeli ¹ , Mrs Christina Sartsidou ¹ , Dr Constantinos Tsangarakis ¹ , Dr Pantelis Trikalitis ¹	Mr Antonio Fernandez-Caballero 12, Dr Duc Nguy- en-Manh², Dr Jan Wrobel³, Prof Paul Mummery¹
	"School of Materials, The University of Manchester, Manchester, United Kingdom, "Research Complex at Harwell, RAL, Didcot, United Kingdom, "School of Ma- terials Science and Engineering, Tsinghua University, Begling, China, "Department of Materials Science and Engineering, McMaster University, Hamilton, Canada	¹ North Carolina State University, Raleigh, United States, ² University of South Carolina, columbia, United States	¹ University Of Crete , Heraklion Crete, Greece	University of Manchester, Manchester, UK, ² Culham Centre Far Fusion Energy, Abingdon, UK, ³ Warsaw University of Technology, Warsaw, Poland
	IN SITU NANOTOMOGRAPHY INVESTIGATION OF HIGH TEMPERATURE DEFORMATION IN LIGHT ALLOYS	MECHANICAL PROPERTIES OF MIX JOINT TIG WELDED HASTELLOY X	HIGHLIGHT MOF-BASED BIFUNCTIONAL MATERIALS FOR COMBINED CO ₂ CAPTURE AND CONVERSION	ON THE COMPOSITIONAL ORIGINS OF SIGMA PHASE PRECIPITATION IN CTMNFECONI-TYPE HIGH ENTROPY ALLOYS
18.10	Ms. Richi Kumar ¹² , Dr. Julie Villanova ¹ , Dr. Pierre Lhuissier ² , Prof. Luc Salvo ²	Mr. Jonas Saarimäki ¹ , Mr. Mattias Lundberg ¹ , Mr. Moritz Döllgast ¹ , Professor Johan Moverare ¹ , Doctor Håkan Brodin ²	Mr Angus Crake ¹ , Dr Kostas Christoforidis ¹ , <u>Dr Camille Petit¹</u>	Dr. Katerina Christofidou', Thomas McAuliffe', Dr. Paul Mignanelu', Pietro Orsatti', Dr. Ed Pickering', Dr. Howard Stone', Dr. Nick Jones'
	European Synchrotron Radiation Facility, Grenoble, France, ² Univ. Grenoble Alpes, CNRS, SIMAP, Grenoble, France	¹Linköping University, Linköping, Sweden,²Siemens Industrial Turbomachinery AB, Finspång, Sweden	[†] Imperial College London, United Kingdom	"University Of Cambridge. Department of Materials Science and Metallurgy, Cambridge. United Kingdom, ² The University of Manchester, School of Materials, Manchester, United Kingdom
	IN SITU NEUTRON DIFFRACTION OF STRAIN PATH CHANGE EFFECTS IN COLD-ROLLED MgAZ31B SHEET	SEGREGATION DYNAMICS OF P IN NI-BASED ALLOY DURING AGING AND COOLING: CRITICAL TIME AND CRITICAL COOLING RATE	TOWARDS FUNCTIONAL DEVICES VIA MOF@FIBRE NANOCOMPOSITES	ACCURATE ON-LATTICE MODEL FOR STABILITY EVALUATION OF HIGH-ENTROPY ALLOYS
18.30	Karl Sofinowski ¹² , Jan Čapek ³ , Dr. Tobias Panzner ¹ , Dr. Steven Van Petegem ¹ , Prof. Dr. Helena Van Swygenhoven ¹ 2	<u>Jinsen Tian</u> ¹ , Dr Yu-Lung Chiu ¹ , Prof. Ian Jones ¹	Mr Kirill Titov ¹ . Mr Abhijeet Chaudhari ¹ , Mr Mahdi Ezwan Mahmoud ¹ . Dr Chris Kelley ² . Dr Mark Frogley ² . Dr Gianfelice Cinque ² . Dr Jin-Chong Tan ¹	Evgeny Meshkov ¹ , Ivan Novoselov ¹ , Alexander Shapeev ² , Alexey Yanilkin ¹
	Paul Scherrer Institute, Villigen, Switzerland, ² École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland, ² Charles University in Prague, Prague, Czech Republic	¹ School of Metallurgy and Materials, University of Birmingham, Birmingham, United Kingdom	University Of Oxford, Oxford, United Kingdom, ² Diamond Light Source, Harwell. United Kingdom	"Dukhov Research Institute of Automatics (VNIIA), Moscow, Russian Federation, ² Skolkovo Institute of Science and Technology, Moscow, Russian Federation
	NEUTRON DIFFRACTION STUDY OF Mg-BASED COMPOSITES AT DIFFERENT TEMPERATURES	LONG TIME ANNEALING OF THE NICKEL-BASED SUPERALLOY WASPALOY	A HOT-PRESSING (HoP) STRATEGY FOR FABRICATION OF METAL-ORGANIC FRAMEWORK BASED DEVICES	AUXCOCFENI HIGH ENTROPY ALLOYS FOR STRUCTURAL APPLICATIONS
18.50	MSc. Gergety Farkas¹, Doc. Kristián Máthis², Ph.D. Ján Pilch¹, Ph.D. Peter Minárik², CSc. Petr Lukáš¹	Konstantin Firlus ¹ , DrIng. Svenja Kinzel ^{1,2} , Johannes Gabel ³ , <u>Prof. DrIng. Uwe Glatzel</u> ¹	<u>Doctoral student Yifa Chen</u> ¹, Prof Bo Wang¹	Dr. Eng Mariana Lucaci ¹ , Dr. Eng Magdalena Lungu ¹ , Dr Phys Eugeniu Vasile ² , Dr. Phys Mihai Straticiuc ³ , Dr Phys Ion Burcea ³ , Dr. Eng Violeta Tsakiris ¹ , Dr. Eng Dorinel Talpeanu ¹ , ENG Nicolae Stancu ¹ , Dr. Eng Alexandru Iorga ¹ , Dr. Eng Eugen Manta ¹ , Dr. Eng Diana Cirstea ¹
	¹ Nuclear Physics Institute, V. V. I., Řež 250 68, Czech Republic, ² Department of Metal Physics, Charles University, Ke Karlovu 5, Prague 2, 121 16, Czechia	¹ Metals and Alloys, Bayreuth, Germany, ² H-O-T Härte und Oberflächentechnik, Buttenheim, Germany, ³ MTU Aero Engines AG, Munich, Germany	¹ Beijing Institute of Technology, Beijing, China	¹ INCDIE ICPE-CA, Bucharest, Romania, ² University Politehnica of Bucharest, Bucharest, Romania, ³ IFIN - HH, Bucharest - Magurele, Romania
				PHASE COMPOSITION, MICROSTRUCTURE AND THERMAL STABILITY OF THE MULTI-PHASE NI-V-Sn ALLOYS WITH NI 75-90 at % CONTENT
19.10				Prof. PAS Tomasz Czeppe! Dr Anna Sypien! Dr Anna Wierzbicka-Miernik!, Dr Grzegorz Garzel!, Dr Anna Goral!, Prof Lidia Litynska-Dobrzynska', MSc Katarzyna Janik', Dr Marek Kopyto!
				"Institute of Metallurgy And Materials Sciences Pas, Krakow, Poland
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Symposium	B10	B11	C1 C4	
Room	Maurice Saltiel Hall II/M2	Maurice Saltiel Hall III/M2	Friends of Music Hall/M1	Conference Room 4/M1
Session Title	Corrosion & Wear III	Heat Treatment, Microstructure and Joining of Fe and Al-Alloys	C1.2: Coatings deposition routes and novel characterization techniques 3/5 Characterization	Testing, characterization and modeling for Additive Manufacturing 1
Chairperson	Ruben Santos	M. Kynazeva	R. Cremer, G. Orhan	Richard Everett
	ELECTROSPUN NANOFIBERS FOR CORROSION PROTECTION OF METALLIC SURFACES	EVIDENCE OF GRANULARIZATION OF LATH-LIKE BAINITE DURING ISOTHERMAL HOLDING: HOW CHEMISTRY AND INITIAL MICROSTRUCTURE IMPACT THE GRANULARIZATION KINETICS	HIGHLIGHT NANOPARTICLE AND NANOCOMPOSITE FILMS WITH PLASMA POLYMERS	HIGH RESOLUTION X-RAY MICROSCOPY AND CT FOR ADDITIVE MANUFACTURING
	<u>Dr. Ioana Carmen Vladu</u> ¹. Prof. Christoph Kleber¹	Mile Meriem BEN HAJ SLAMA ¹²³ , Mme Nathalie GEY ²³ , Mr Lionel GERMAIN ²³ , Mme Kangying ZHU ⁵ , Mr Sébastien ALLAIN ¹³⁴	DrSc Hynek Biederman ¹ , PhD Ondrej Kylian ¹ , PhD Andrei Choukourov ¹	Mr. Luke Hunter ¹ , Dr. Leah Lucas Lavery ¹ , Lars-Oliver Kautschor ¹
17.30	'Centre of Electrochemical Surface Technology, Wiener Neustadt, Austria	Institut Jean Lamour UMR CNRS 7198 Université de Lorraine, Nancy, France, ² Laboratoire d'Etude des Micro- structures et de Mécanique des Matériaux (LEM3), UMR CNRS 7239, Université de Lorraine, 57045 Met, France, ² Laboratory of Excellence on Design of Alloy Metals for low- máss Structures (DAMAS), Université de Lorraine, Metz Nancy, France, ⁴ Ecole des Mines de Nancy, Campus Artem - CS 14 234, 54 042 Nancy Cedex, France, ⁴ ArcelorMittal Re- search Center Mazières Research SA, Metz Viole Romaine, BP30320, 57283 Maizières-lès-Metz Cedex, France	¹ Charles University, Faculty of Mathematics and Physics, Department of Macromolecular Physics, V Holešovičkách ² , Prague, Czech Republic	¹ Carl Zeiss Microscopy, Pleasanton, United States
	MICROSTRUCTURE EVOLUTION AND GALLING PROP- ERTIES OF HARD FACING COATINGS DEPOSITED USING LASER DIRECTED ENERGY DEPOSITION	MONTE CARLO SIMULATION OF PRIMARY RECRYS- TALLIZATION IN AN IF STEEL	CORE-SHELL NANOPARTICLES ARISING FROM PLASMA POLYMERIZATION	IN OPERANDO X-RAY IMAGING OF LASER-POWDER INTERACTION MECHANISMS DURING ADDITIVE MANUFACTURING
17.50	<u>Dr Niyanth Sridharan</u> ¹, Dr Ryan Dehoff¹, Brian Jordan¹, Prof Sudarsanam Babu¹²	Meriem RAMOUL ¹ , Monte Carlo simulation of primary recrystallization in an IF steel Abdelhak AYAD ¹ . Monte Carlo simulation of primary recrystallization in an IF steel Nadjet ROUAG ¹ , Monte Carlo simulation of primary recrystallization in an IF steel Francis WAGNER ³	Stella Mathioudaki ¹ , Dr. Bastien Barthélémy ¹ , Prof. Stéphane Lucas ¹	Mr Chu Lun Alex Leung ¹² , Mr Sebastian Marussi ¹² , Dr Robert A Atwood ⁴ , Professor Mike Towrie ²³ , Professor Philip J Withers ¹ , Professor Peter D Lee ¹²
	¹ Oak Ridge National Laboratory, Oak Ridge, United States, ² University of Tennessee , Knoxville, united states	'Laboratoire de microstructures et défauts dans les matériaux, Université Frères Mentouri Constantine I, Alegria. Constantine, Algeria. 'Département de phar- macie, Faculté de Médecine, Université Constantine 3. Nouvelle ville Ali Mendjeli, BP. 67A Constantine, Algeria. Constantine, Algeria. 'LEM3, (CNRS-UMR 7239), Université de Lorraine, lle du Saulcy, 57045 Metz, France., Metz, France	Research Centre for Physics of Matter and Radiation (PMR-LARN), University of Namur, Rue de Bruxelles 61, Belgium	¹ The University of Manchester, Manchester, United Kingdom, ² Research Complex at Harwell, Harwell, United Kingdom, ⁴ The Central Laser Facility, Harwell, United Kingdom, ⁴ Diamond Light Source, Harwell, United Kingdom
	SLIDING WEAR AND SOLID PARTICLE EROSION RESPONSE OF ALUMINIUM REINFORCED WITH TUNGSTEN CARBIDE NANOPARTICLES AND ALUMINIDE PARTICLES	STRAIN RATE SENSITIVITY OF BAINITIC STEELS: CORRELATION BETWEEN MICROSTRUCTURE AND MECHANICAL RESPONSE UNDER DYNAMIC LOADING CONDITIONS	PRODUCTION, CHARACTERIZATION, AND RESIDUAL STRAIN ANALYSIS OF THICK PLASMA SPRAYED TUNGSTEN COATINGS FOR NUCLEAR FUSION APPLICATIONS	MODELING OF GRAIN STRUCTURE EVOLUTION DURING METAL ADDITIVE MANUFACTURING
18.10	Dr. Konstantinos Lentzaris', Prof. ANGELIKI LEKATOU', Prof. Alexandros Karantzalis', Ms Ekaterini Hantziara', Mr Nicolaos Gkikas', Ms Vasiliki Gousia'	MSc Behnam Shakerifard ¹ , Dr. Jesus Galan Lopez ² , Prof. Patricia Verleysen ³ , Prof. Leo Kestens ⁴	Mr Edward Rowe ¹ , Dr David Armstrong ¹ , Professor Patrick Grant ¹ , Dr Elizabeth Surrey ²	Dr. Aleksandr Zinoviev ¹ , Dr. Olga Zinovieva ¹ , Prof. DrIng. Vasily Ploshikhin ¹
	¹ University Of loannina, loannina, Greece	¹ Delft University of Technology, Delft. Netherlands, ² Materials Innovation Institute, Delft. Netherlands, ³ Ghent University, Ghent. Belgium, ⁴ Ghent University, Ghent. Belgium	¹ University Of Oxford, Oxford, United Kingdom, ² UKAEA, Culham Science Centre, Abingdon, United Kingdom	'Airbus Endowed Chair for Integrative Simulation and Engineering of Materials and Processes (ISEMP), University of Bremen, Bremen, Germany
	EFFECT OF MAGNESIUM ON THE MICROSTRUC- TURE AND THE FUNDAMENTAL ABRASIVE WEAR BEHAVIOUR OF IRON ALUMINIDES	INFLUENCE OF HARMONIC STRUCTURE DESIGN ON BACK STRESS OF SUS30AL STAINLESS STEEL UNDER UNLOAD-RELOAD CYCLE TESTS	NANO BEAM X-RAY DIFFRACTION ANALYSIS OF STRESS AND STRAIN IN HIGH-TEMPERATURE OXI- DATION RESISTANT MO-SI-B/TI-AI-N MULTILAYER COATINGS	EFFECT OF BUILD HEIGHT AND SCANNING STRATE- GY ON THE EVOLUTION OF THE RESIDUAL STRESSES IN NICKEL BASED SUPERALLOY INCONEL-738LC PRODUCED BY SELECTIVE LASER MELTING (SLM)
18.30	Harald Rojacz ¹ , Dr. Markus Varga ¹ , Dr. Ulrike Cihak-Bayr ¹	Yuya Fujiki¹, Masashi Nakatani¹, Mie Ota¹, Yuntian Zhu², Kei Ameyama¹	DI Elias Aschauer ¹ , Dr. Matthias BArtosik ² , Dr. Peter Polcik ² , Dr. Mirjam Arndt ⁴ , Dr. Helmut Riedl ¹ , Prof. Paul Heinz Mayrhofer ¹ , ²	Avinash Hariharan ¹ , Jeroen Risse ² , Eric A.Jägle ¹ , Dierk Raabe ¹
	'ACZT research Gmbh, Wiener Neustadt, Austria	¹ Ritsumeikan University, Kusatsu City, Japan. ² North Carolina State University, Raleigh, United States	¹ TU Wien, CDL-AOS at the Insitute of Materials Science and Technology, Wien, Austria, ² TU Wien, Institute of Materials Science and Technology, Wien, Austria, ² Plansee Composite Materials GmbH, Lechbruck am See, Germany, ² Oetrikon Surface Solutions AG, Gerlikon Balzers, Balzers, Liechtenstein	Department of Microstructure Physics and Alloy Design, Max-Planck-Institut für Eisenforschung, Dus- seldorf, Germany: Fraunhofer-Institut für Lasertechnik ILT, Aachen, Germany
	EVALUATION OF THE TRIBOLOGICAL PERFORMANCE OF MOTANDZ/TI HIGH ENTROPY ALLOY	EFFECT OF SIZE, DISTRIBUTION AND NATURE OF NANOSCALE PARTICLES ON SLIP DISPERSION IN ALUMINIUM ALLOYS	TRIBIOLOGICAL BEHAVIOR OF TC4 ALLOY MODIFIED BY HIGH-FREQUENCY INDUCTION PASTE ALLOYING TECHNOLOGY	MODEL FOR SURFACE FINISHING IN SELECTIVE LASER MELTING
18.50	Dipl. Eng Anthoula Poulia ¹ , Dipl. Eng. Emmanuel Georgatis ¹ , Dipl. Eng. Christina Mathiou ¹ , Dr. Angela Lekatou ¹ , Dr. Alexander Karantzalis ¹	Juliette Chevy¹, Belen Davo¹, Marc Fivel², Elena Jover Carrasco¹	Feng Ding¹, Ping Ze Zhang¹, Dong Bo Wei¹, Xiang Fei Wei¹, Xiao Hu Chen¹	Professor Ilaria Cristofolini ¹ . Professor Alberto Molinari ¹
	'University Of loannina, Ioannina, Greece	¹ Constellium C-tec, Voreppe, France, ² SIMaP, Grenoble, France	'Nanjing University Of Aeronautics And Astronautics, Nanjing, China	¹ University Of Trento, Trento, Italy
	WEAR PERFORMANCE OF EPOXY RESINS: INFLUENCE OF CARBON REINFORCING PHASES	MICROSTRUCTURAL INVESTIGATIONS OF VACUUM BRAZED ALUMINUM-STEEL-JOINTS	PRODUCTION OF CARBON COATED AL-FOAMS AND EVALUATION OF THEIR MECHANICAL BEHAVIOUR	PREDICTION OF MECHANICAL PROPERTIES OF OPEN LATTICE CELLULAR MATERIALS BY SELECTIVE LASER MELTING PROCESS SIMULATION
19.10	PhD candidate Dimitrios Baltzis', Undergraduate student Angelos Daflos', Professor Aggeliki Lekatou', Professor Alkiviadis Paipetis'	Prof. DrIng. DipL.WirtIng. Wolfgang Tillmann ¹ , <u>Lukas Wojarski</u>	<u>Dr. Fani Stergioudi</u> ¹ , Prof Nikolaos Michailidis ¹	Professor Georgios Lampeas¹, Dr. Ioannis Diamantakos¹
	'Composite and Smart Materials Laboratory, Depart- ment of Materials Engineering, University of Ioannina, Ioannina, Greece, 'Applied Metallurgy Laboratory, Department of Materials Engineering, University of Ioannina, Ioannina, Greece	[†] TU Dortmund University - Institute Of Materials Engineering, Dortmund, Germany	Physical Metallurgy Laboratory, Department of Mechanical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece	¹ University of Patras, Patras, Greece



Symposium	C10	D1	D2	D3
Room	F 319/M1	Artist Café/M1	Museum Hall /M2	I-15/M1
Session Title	Surface nanocrystallization, graded microstructure, multi-layered and composites by SPD	Spectroscopies-II	Nanostructures, nanomaterials and low dimensional systems II	Structural and mechanical properties I
Chairperson	S. Zherebtzov and H. Miura	Andrea Di Cicco, Eric Collet	Thomas Kehagias	Ilias Zoumboulis
	STRESS-ASSISTED AND STRAIN-INDUCED MARTEN- SITES FORMED BY CRYOGENIC ULTRASONIC SHOT PEENING IN AUSTENTIC STAINLESS STEELS AND BETA-METASTABLE TI ALLOYS	HIGHLIGHT SPECTROSCOPIC STUDIES OF ADVANCED MATERIALS WITH NANOBEAMS	A NEW TEMPLATE FREE STRATEGY TO FABRICATE NANOREACTORS WITH INTERNAL POROSITY AND ITS IMPACT ON THE MATERIAL PROPERTIES	RESPONSE OF AM STAINLESS STEEL TO HIGH STRAIN RATE LOADING
17.30	Pr Thierry Grosdidier ¹ , Dr Marc Novelli ¹ , Mr Pierre Maurel ¹ , Dr Laurent Weiss ¹ , Pr Philippe Bocher ²	Dr Gema Martinez-criado¹	Dr Monica Distaso¹	Mr Matthew Cotton Dr Paul Hooper ²
	'University Of Lorraine - Labex Damas, Metz, France, 'Ecole de Technologie Supérieure de Montréal, Montréal, Canada	¹ICMM-CSIC, Cantoblanco, España	'Fau Erlangen Nuremberg, Erlangen, Germany	'Awe, Aldermaston, Reading, UK, 'Department of Mechanical Engineering, Imperial College London, London, UK
	HIGHLIGHT EFFECT OF WARM MULTIAXIAL FORGING ON STRUCTURE AND PROPERTIES OF TI/TIB METAL-MATRIX COMPOSITE	APPLICATIONS OF SYNCHROTRON RADIA- TION-BASED XRD AND XAFS IN METALLIC GLASSES	QUANTITATIVE CHARACTERISATION OF NANOSTRUC- TURAL COMPOSITES BY TRANSMISSION ELECTRON MICROSCOPY	INTERACTION FORCES' MEASUREMENT FOR VERY SHORT-LIVED CONTACTS AT HIGH VELOCITIES
17.50	Dr. Sergey Zherebtsov¹, Maxim Ozerov¹, Dr. Nikita Stepanov¹, Margarita Klimova¹	Prof. Jian-Zhong Jiang¹, prof. dongxian zhang¹	<u>Dr. Miroslawa Pawlyta</u> ¹. PhD student Bartlomiej Sobel¹	Engineer Baptiste Martinet ^{1,2} , Engineer Stéphane Ski- ba ^{1,2} , PhD Mathieu Marquer ^{1,3} , PhD Andrea Cappella ¹ , PhD Laurent Faure ¹ , PhD Sylvain Philippon ¹
	¹ Belgorod State University, Belgorod, Russian Federation	'Zhejiang University, Hangzhou, China	'Silesian University Of Technology, Gliwice, Poland	'Laboratoire d'Etudes des Microstructures et des Mé- caniques des Matériaux (LEM3), Metz, France, ² Safran Aircraft Engines, Safran Group, Moissy-Cramayel, France, ³ IRT M2P, Metz, France
	EFFECT OF HIGH-PRESSURE TORSION ON STRUCTURE AND PROPERTIES OF TI/TIB METAL-MATRIX COMPOSITE	STRUCTURAL PHASES OF NIOBIUM GERMANATE THIN FILMS BY DFT ASSISTED EXAFS ANALYSES	NANOWHISKERS Cuo: PREPARATION, STRUCTURE FEATURES, PROPERTIES, AND APPLICATIONS	IMPACT BEHAVIOR OF POROUS AL
18.10	Maxim Ozerovi	Prof. Mehmet Sahiner¹, Christopher Ciccarino¹, Rory Vander Valk¹, R. Morea², Jose Gonzalo², Joseph Woicik²	Dr. Maksim Dorogov ¹ , Dr. Alexander Kalmykov ² , Dr. Prof. Lev Sorokin ² , Mr. Andrey Kozlov ¹ , Mr. Alexander Myasosedov ² , Ms. Natalia Chirkunova ¹ , Dr. Katerina Aifantis ^{13,4} , Ms. Anastasia Priezzheva ¹ , Dr. Prof. Anatoly Vikarchuk ¹ , Dr.,Prof. Alexey Romanov ^{12,4}	DrEng. Nikolaos Michailidis ¹ , <u>Mr. Emmanouil</u> <u>Smyrnaios</u> ¹ , DrEng. Georgios Maliaris ² , DrEng. Fani Stergioudi ¹
	'Belgorod State University, Belgorod, Russian Federation	'Seton Hall University, South Orange, United States, ² CSIC, Madrid, Spain, ³ NIST, Gaithersburg, United States	¹ Togliatti State University, Togliatti, Russian Federation, ² Ioffe Physical Technical Institute, Russian Academy of Sciences, St. Petersburg, Russian Federation, ³ Univer- sity of Arizona, Tucson, United States of America, ¹ ITMO University, St. Petersburg, Russian Federation	'Physical metallurgy Laboratory, Dept. of Mechanical Engineering, School of Engineering, Aristatle University of Thessaloniki, Thessaloniki, Greece, 'Mechatronics & Electromechanical Systems Automation Labora- tory, Dept. of Electrical and Computer Engineering, Polytechnics school, Democritus University of Thrace, Xanthi, Greece
	HIGHLIGHT ALUMINUM- AND COPPER-BASED ULTRAF- INE-GRAINED COMPOSITES REINFORCED WITH AI203 NANOPARTICLES FABRICATED BY ACCUMULATIVE ROLL BONDING	LONG-TERM STRUCTURAL STABILITY OF Zn-DOPED AMORPHOUS Sn02 THIN FILMS	MICROSTRUCTURAL CHARACTERIZATIONS OF CARBON FIBER ON THE NANOMETER SCALE	THE LONG PERIOD SUPERLATTICE IN Mg ALLOYS SYNTHESIZED UNDER HIGH PRESSURE AND TEMPERATURE
18.30	Dr. Konstantin Ivanov ¹	Ms Qing Ma ¹ . <u>Dr. Qing Ma</u> ² , Dr. Bruce Buchholz ¹ , Professor Robert Chang ¹ , Professor Michael Bedzyk ¹	Professor Lianlong He ¹ . Dr Gengheng Zhou ¹ , Mr Xinshuang Guo ¹ . Mr Yongxin Cheng ¹	Professor Masafumi Matsushita', Naoya Fujita², Ryota Tsukamoto', Ryota Inugai', Michiaki Yamasaki³, Yoshihito Kawamura³, Tetsuo Irifune¹, Eiji Abe²
	¹ Institute Of Strength Physics And Materials Science, Siberian Branch Of Russian Academy Of Sciences, Tomsk. Russian Federation	Department of Materials Science and Engineering, Northwestern University, Evanston, United States, *Northwestern Synchrotron Research Center, Northwestern University, Argonne, United States	¹Institute Of Metal Research, CAS, Shenyang, China	'Ehime University, Matsuyama, Japan, ² Tokyo University, Bunkyo-ku, Japan, ³ Kumamoto University, Kumamoto, Japan
	MICROSTRUCTURE AND MECHANICAL PROPERTIES OF FINE-GRAINED DUAL PHASE 800 STEEL PRO- CESSED BY FRICTION STIR PROCESSED	EVOLUTION OF THE SOLID ELECTROLYTE INTER- PHASE IN LI-ION ELECTRODES PROBED BY X-RAY ABSORPTION AND PHOTOEMISSION SPECTROSCOPY	HELIUM INVESTIGATION IN THE PORE OF IRRADIATED MATERIALS BY EELS TECHNIQUE	PRESSURE-INDUCED TRANSITIONS OF KESTERITE-TYPE Cu2ZnSnS4
	MS Semih Aktarer ¹ , PhD Tevfik Kucukomeroglu ² , MS Murat Sekban ² , PhD Gencaga Purcek ²	Prof. Andrea Di Cicco ¹ , Dr. Javad Seyed Rezvani, Dr. Angela Trapananti, Prof. Roberto Gunnella, Dr. Matteo Ciambezi	<u>Dr. Kirill Prikhodko</u> ¹² , Olga Emelyanova ²	Dr. Ilias Efthimiopoulos ¹ , Ms. Anna Ritscher ^{2,3} , Mr. Marcel Quennel ^{3,4} , Prof. Dr. Martin Lerch 2, Prof. Dr. Beate Paulus ¹ Dr. Sergio Speziale ¹ , Dr. Anna Pakhomova ² , Dr. Hanns-Peter Liermann ⁵ , Prof. Dr. Monika Koch-Mueller ¹
18.50	¹ Recep Tayyip Erdogan University, Rize, Turkey, ² Karadeniz Technical University, Trabzon, Turkey	¹ University Camerino, Italy	¹ National Research Centre "Kurchatov Institute", Moscow, Russian Federation, ² National Research Nuclear University (MEPhl), Moscow, Russian Federation	¹ Deutsches GeoForschungsZentrum GFZ, Section 4.3, Telegrafenberg, 14473 Potsdam, Germany, ² Institut fuer Chemie, Technische Universitaet Bertin, Strasse des 17-Juni 135, 10823 Bertin, Germany, ³ Helm- holtz-Zentrum Bertin fuer Materialten und Energie. Hahn-Meitiner-Platz 1, 14109 Bertin, Germany, ⁴ Institut für Chemie und Biochemie, Freie Universität Bertin, Takustrade 3, 1419 Bertin, Germany, ⁵ Deutsches Elektronen-Synchrotron DESY, Nolkestrasse 85, 22603 Hamburg, Germany
			THE EFFECT OF MICROSTRUCTURE ON MAGNETIC COUPLING IN FePU/SPACER/FePt TRILAYERS	Fes Polymorphs: Stability and Thermodynamics from ab Initio Modelling
19.10			Dr. Andreas Kaidatzis¹, Dr. George Giannopoulos¹, Dr. Vassilis Psycharis¹, Dr. Dimitrios Niarchos¹, Prof. Gianni Barucca², Assoc. Prof. George Dimitrakopulos³, Emer. Prof. Theodoros Karakostas³, Prof. Philomela Komninou³, Dr. José Miguel García-Martin², Dr. Gaspare Varvaro⁵, Dr. Alberto Maria Testas⁵	Dr Umberto Terranova¹, Prof Nora de Leeuw¹
			¹ NCSR 'Demokritos'', Aghia Paraskevi, Greece, ² Università Politecnica delle Marche, Dipartimento SIMAU, Ancona, Italy,' Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece, ⁴ Instituto de Microelectronica de Madrid, Tres Cantos, Madrid, Spain, ⁵ nM2-Lab, ISM-CNR, Rome, Italy	¹ School of Chemistry, Cardiff University, United Kingdom

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Symposium	D4	D8	D9	D10
Room	Library Hall/M2	I -16/M1	Maurice Saltiel Hall I/M2	CR II Hall/M2
Session Title	Session 9 - Multi-scale modelling of Fracture	Oxides and complex phases	Nuclear Fuel (II)	Plasticity
Chairperson	Christophe Pinna, Eric Le Bourhis	Martin Friak	D. Manara	Siegfried Schmauder, Michael Agoras
	<u>HIGHLIGHT</u> GRADELA AND CHEMOFRACTURE	HIGHLIGHT Mg/MgO INTERFACE FORMATION	KEYNOTE/INVITED THERMODYNAMICS AND KINETICS OF FISSION PRODUCTS AND IMPURITIES IN NITRIDE AND SILICIDE FUELS	HIGHLIGHT FULL-FIELD MODELING OF SPHEROIDIZATION PHENOMENON IN A/B TITANIUM ALLOYS DURING HOT-DEFORMATION AND SUBSEQUENT ANNEALING AT A GIVEN TEMPERATURE
17.30	Dr. Ioannis Tsagrakis ¹ , Dr. Iason Konstantopoulos ¹ , <u>Professor Etias C. Aifantis</u> ^{1,2,3,5}	<u>Dr Andrew Horsfield</u> ¹ , Dr Wenwu Xu ¹ , Dr David Wearing ¹ , Prof Peter Lee ²		<u>Danai Polychronopoulou</u> ¹ , Nathalie Bozzolo ¹ , Marc Bernacki ¹
	¹ Aristatle University of Thessaloniki. Thessaloniki. GR-54124. Greece, ² Michigan Technological University, Houghton, M 49931, USA, ¹ Beijing University of Civil Engineering and Architecture, Beijing, 100044. China, ⁴ ITMO University, 5t. Petersburg, 197101. Russia, ³ Togliatti State University, Togliatti, 445020, Russia	¹ Imperial College London, London, United Kingdom, ² Unversity of Manchester, Manchester, United Kingdom	<u>Dr Par Olsson</u> ¹ , Dr Antoine Claisse ¹ , Dr Denise Adorno Lopes ¹ , Dr Thomas Schuler ²	'MINES ParisTech, PSL Research University, CEMEF - Centre de mise en forme des matériaux, CNRS UMR 7635, CS 10207, rue Claude Daunesse, 06904 Sophia Antipolis Cedex , France
	DEFORMATION AND FAILURE IN AMORPHOUS SOLIDS ON MICRO- AND NANO SCALES: COMPUTATIONAL MODELLING	ATOMISTIC SIMULATIONS OF OXIDATION MECHANISM OF POLYCRYSTALLINE AND DOPED ALUMINIUM USING REACTIVE FORCE FIELD AND AB INITIO METHODS	¹ KTH Royal Institute Of Technology, Stockholm, Sweden, ² University of Illinois, Urbana-Champaign, USA	LIFE PREDICTION APPROACH FOR A SHORT FIBER REINFORCED COMPOSITE MATERIAL SUBMITTED TO TEMPERATURE VARIATION DURING FATIGUE LOADING
17.50	Michael Zaiser¹	Phd Marcela E. Trybula ¹² , Dominika Wieczorek ³ , PhD P. A. Korzhavyi ¹		Mohamed Amine Laribi ¹² , Sahbi Tamboura ² , Joseph Fitoussi ¹ , Robert Tiebi ² , Hachmi Ben Daly ² , Tcharkhtch Abbas ¹
	'FAU University of Erlangen-Nuremberg, Germany	KTH Royal Institute Of Technology, Stockholm, Sweden, Institute of Metallurgy and Materials Science PAS, Krakow, Poland-Fraculty of Physics, Astronomy and Applied Computer Science, Jagiellonian University, Krakow, Poland		¹ Ensam Paristech, 75013 Paris, France, ¹ ENISo, 4054 Sousse, Tunisia, ³ Automotive Exteriors Europe, 18 bis rue de Verdun BP 15178, 25402 Audincourt, France, Audincourt, France
	FINITE ELEMENT ANALYSIS OF DYNAMIC FRACTURE MODELLED WITH ERINGEN'S THEORY OF GRADIENT ELASTICITY	FIRST-PRINCIPLES MODEL POTENTIALS FOR CHEMICALLY INHOMOGENEUS OXIDES	KEYNOTE/INVITED IDENTIFICATION OF VACANCY-TYPE DEFECTS IN URANIUM DIOXIDE	CONSTRUCTION, ASSESSMENT AND TESTING OF BOND-ORDER POTENTIAL FOR Fe-Nb
18.10	Professor Harm Askes', Dr Inna Gitman'	Carlos Escorihuela-Sayalero¹, Ph. D. Jorge Iñiguez¹,2		<u>Alvin Noe Ladines</u> ¹, Thomas Hammerschmidt, Ralf Drautz
	¹ University Of Sheffield, Sheffield, United Kingdom	'Luxembourg Institute of Science and Technology, Belvaux, Luxembourg, 'Institut de Ciència de Materials de Barcelona, Cerdanyola del Vallès, Spain	<u>Dr Pierre Desgardin</u> ¹ , Dr Marie France Barthe ¹ , Dr Julia Wiktor ² , Dr Marjorie Bertolus ² , Dr Gerald Jomard ² , Dr Gaelle Carlot ² , Dr Philippe Garcia ² , Dr Guillaume Martin ³	¹lcams, Ruhr-universitaet Bochum
	OPTIMISED POSITION AND SIZE OF SYMMETRIC CRACK FLANK HOLES: NUMERICAL METHODOLOGY AND EXPERIMENTAL VALIDATION			BUCKLING OF THIN FILMS ON PLASTICALLY DEFORMED SUBSTRATES
18.30	Dr Inna Gitman ¹ , Dr Hassan Ghadbeigi ¹ , Mr Alwin Babu Kannadikara ¹ , Mr Ammar Al-Rubaye ¹			Dr Julien Durinck ¹ , Pr Jérôme Colin ¹ , Pr Christophe Coupeau ¹ , Dr Antoine Ruffini ² , Dr Guillaume Parry ² , Dr Sami Hamade ¹ , Pr Alain Cimetière ¹
	[†] The University of Sheffield, Sheffield, United Kingdom		¹ CEMHTI/CNRS, Orléans, France, ² DEN/DEC/SESC, CEA Cadarache, Saint Paul lez Durance, France, ² CEA, DEN, SPRC, LECy, Saint Paul lez Durance, France	¹Institut P', Chasseneuil-Futuroscope, France, ²SIMAP, Grenoble, France, 3LEM, Châtillon, France
	DOUBLE DIFFUSIVITY IN PRESENCE OF FINITE TIME CORRELATED STOCHASTIC FORCING		VACANCY DEFECTS AND HELIUM BEHAVIOR IN (U.La)02-X COMPOUNDS FOR THE STUDY OF TRANSMUTATION FEASIBILITY	CRYSTAL PLASTICITY MODEL FOR DESCRIBING HARDENING BEHAVIOR OF DUAL PHASE STEEL DURING STRAIN PATH CHANGES
18.50	<u>Dr Amit Chattopadhyay</u> i, Professor Elias Aifantis²		Dr Chenwei He ¹ , Dr Marie France Barthe ¹² , Dr Thierry Sauvage ¹² , Dr Pierre Desgardin ¹² , Dr Hélène Lecoq ¹² , Dr Patrick Simon ¹² , Dr Thierry Wiss ² , Dr Daniel Freis ³	Hwigeon Kim¹. Youngung Jeong², Frédéric Barlat¹
18.50	'Aston University. Birmingham, United Kingdom, 'Aristotle University. Thessaloniki. Greece		CNRS, UPR3079 CEMHTI, 3A rue de la Férollerie, 45071 Orléans cedex2, France, Université d'Orléans, Avenue du Parc Floral, BP 6749, 45067 Orléans cedex 2, France, European Commission, Joint Research Centre, Institute for Transuranium Elements, P.O. Box 2340, 76125 Karlsruhe, Germany	'Graduate Institute of Ferrous Technology (GIFT), Pohang University of Science and Technology (POS- TECH). Gyeongbuk, Republic of Korea, ¹ Department of Materials Science and Engineering, Changwon Nationa University, Gyeongnam, Republic of Korea
			BASIC PROPERTIES OF OXIDE NUCLEAR FUELS: ATOMIC SCALE INVESTIGATIONS OF THE TRANSPORT PROPERTIES OF URANIUM DIOXIDE IN SUPPORT OF SEPARATE EFFECT EXPERIMENTS	SPRINGBACK PREDICTION FOR ULTRA-THIN STAINLESS STEEL SHEETS
19.10			Dr. Marjorie Bertolus ¹ , Dr. Michel Freyss ¹ , Dr. Emerson Vathonne ¹ , Dr. Julia Wiktor ¹ , Ibrahim Cheik Njifon ¹ , Dr Gérald Jomard ¹	JaeHyun Choi ¹ , F. Barlat ¹ , M.G. Lee ² , J.H. Kim ¹
			'CEA, DEN, DEC/SESC, Centre de Cadarache, Saint-Paul-lez-Durance, France	''Graduate Institute of Ferrous Technology, Pohang University of Science and Technology, Pohang, Republic of Korea, ² Korea University, Seoul, Republic of Korea

Symposium	E3	E4	F3
Room	Rehearsal Room 5.17/M1	Conference Room 2/M1	3-21/M1
Session Title	Materials for Energy Harvesting	Fuel and component ?	Nanobiomaterials and nanotechnology for implants, devices and theranostics I
Chairperson	Paul R. Ohodnicki	Marie-France Barthe	Alejandro Baeza
	DURABILITY STUDIES OF SOLAR REFLECTORS FOR COOLED SECONDARY CONCENTRATORS USED IN SOLAR APPLICATIONS	PREPARING THE FUTURE POST-MORTEM ANALYSIS OF BERYLLIUM-BASED JET AND ITER SAMPLES BY MULTI-WAVELENGTHS RAMAN SPECTROSCOPY	COORDINATION POLYMER PARTICLES AS NANOPLATFORMS FOR HIV ANTIRETROVIRAL DRUG RELEASE
17.30	Phd student Alejandro García-Segura', Dr Aránzazu Fernández-García', Dr Loreto Valenzuela', Dr Florian Sutter², Bachelor student Julio Andrés Rabal-Escarbajal³	Cedric Pardanaud ¹ , M. I. Rusu ^{1,2} , Y. Ferro ¹ , G. Giacometti ¹ , C. Martin ¹ , Y. Addab ¹ , P. Roubin ¹ , M. Minissale ¹ , L. Ferry ³ , F. Virot ³ , M. Barrachin ³ , C. P. Lungu ⁴ , C. Poroniscu ⁴ , P. Dinca ⁴ , M. Lungu ⁴ , M. Köppen ⁵ , P. Hansen ⁵ , Ch. Linsmeier ⁵	Rubén Solórzano ^{1,2} , Ramon Alibés ² , Félix Busqué ² , Julia Lorenzo ³ , Fernando Novio ¹ , Daniel Ruiz-Molina ¹
	¹ CIEMAT-PSA, Tabernas, Almería, Spain, ² DLR, Tabernas, Almería, Spain, ³ UPV, Engineering School of Gipuzkoa, Eibar, Spain	'Aix-marseille Université, Marseille, France, 'National Institute of R&D for Optoelectronics , Magurele-Bucharest, Romania, 'Institut de Radioprotection et Siret Nucleiere, Saint Paul-lez-Durance, France, 'National Institute for Laser, Plasma and Radiation Physics, Magurele-Bucharest, Romania, 'Forschungszentrum Jülich GmbH, IEK4 - Plasmaphysik, Jülich, Germany	¹ Catalan Institute of Nanoscience and Nanotechnology (ICN2), CSIC and The Barcelona Institute of Science and Technology, Campus UAB, Bellaterra, Spain, ² Departament de Ouimica, Universitat Autònoma de Barcelona, Bellaterra, Spain, ² Institut de Biotecnologia i Biomedicina, Universitat Autònoma de Barcelona, Bellaterra, Spain
	BROMINATED FLAME RETARDANTS (BFRs) REDUCTION IN PLASTICS FROM ELECTRONIC AND ELECTRIC EQUIPMENT WASTE (WEEE) FRACTION AS A TREATMENT METHOD PRIOR TO PYROLYSIS	CLOSE TO ZERO PERMEATION ALUMINA BASED PROTECTIVE COAT	TARGETED-MESOPOROUS SILICA NANOPARTICLES TO TREAT BACTERIA INFECTION
17.50	Mr Panagiotis Evangelopoulos ¹ , Miss Samantha Arato ² , Mr Henry Persson ¹ , Dr Efthymios Kantarelis ¹ , Dr Weihong Yang ¹	Daniele ladicicco¹, <u>Matteo Vanazzi²</u> , Francisco Garcia Ferré¹, Marco Utili³, Serena Bassini³, Fabio Di Fonzo¹	Mr. Jaime Diez-Mérida ¹ , <u>PhD Isabel Izquierdo-Barba</u> ¹² , PhD Montserrat Colilla ¹² , Prof. María Vallet-Regí ¹²
	¹ KTH Royal Institute of Technology, Stockholm, Sweden, Stockholm, Sweden, ² The City College of New York, New York, United States	'CNST-Istituto Italiano di Tecnologia (IIT), Milano, Italia, ² Dipartimento di Energia - Politecnico di Milano, Milano, Italia, ² ENEA - Nuclear Material Characterization Laboratory , Brasimone, Italia	¹ Facultad de Farmacia, Universidad Complutense de Madrid. Instituto de Investigación Sanitaria Hospital 12 de Octubre i+12, Madrid, Spain, ² CIBER de Bioingeniería, Biomateriales y Nanomedicina, CIBER-BBN, Madrid, Spain
	CORROSION BEHAVIOUR OF STEELS IN NITRATE MOLTEN SALT AT HIGH TEMPERATURE FOR SOLAR THERMAL POWER PLANTS	RADIATION DAMAGE CHARACTERISATION IN TANTALUM-TUNGSTEN ALLOYS AFTER PROTON IRRADIATION	ENGINEERING BACTERIAL CELLULOSE NANOCOMPOSITES
18.10	Dagmar Rückle ¹ , Dr. Stefanie Kaesche ¹ , Prof. Dr. Sannakaisa Virtanen ² , Prof. Dr. Burkhard Heine ³ , Prof. DrIng Harald Garrecht ¹	Ms Iuliia Ipatova¹, Dr Enrique Jimenez-Melero	Muling Zeng ¹ , Anna Roig ¹ , <u>Anna Laromaine</u> ¹
	¹ MPA Universität Stuttgart. Stuttgart, Germany, ² Friedrich-Alexan- der-Universität Erlangen-Nürnberg, Erlangen, Germany, 3Hochschule Aalen, Aalen, Germany	'The University Of Manchester, Manchester, United Kingdom	¹Institut de Ciència de Materials de Barcelona, ICMAB-CSIC, Campus UAB. 08193 Bellaterra, Barcelona - Spain, Spain.
	INVESTIGATIONS ON PRIMARY REFLECTORS FOR SOLAR THERMAL APPLICATIONS EXPOSED TO CORROSIVE ATMOSPHERES	COMPARISON OF COLD-WORKED AND PROTON IRRADIATION HARDENING AND THE ANNEALING RECOVERY OF ZIRCONIUM LINER AND ZIRCALOY-2	ZWITTERIONIC MESOPOROUS SILICA NANOPARTICLES: LOW-FOULING NANOSYSTEMS FOR BIOMEDICAL APPLICATIONS
18.30	Phd student Alejandro García-Segura ¹ , Dr Aránzazu Fernández-García ¹ , Dr María Jesús Ariza ² , Dr Florian Sutter ³ , Dr Loreto Valenzuela ¹	Mr. Petit Wiringgalih¹, Dr. Matthew Topping¹, Dr. Alistair J. W. Garner¹, Prof. Michael Preuss¹, Dr. Philipp Frankel¹	Ms. Silvia González-Piñeiro ¹ , Dr. Montserrat Colilla ¹² , Dr. Isabel Izquier- do-Barba ¹² , Prof. Dr. María Vallet-Regi ¹²
	¹CIEMAT-PSA, Tabernas, Almería, Spain, ²Universidad de Almería, Almería, Spain, ³DLR, Tabernas, Almería, Spain	'School Of Materials, The University Of Manchester, Manchester, United Kingdom	'Ipto. Química Inorgánica y Bioinorgánica, Facultad de Farmacia. Universidad Complutense de Madrid. Instituto de Investigación Sanitaria Hospital 12 de Octubre i+12, Madrid, Spain, ² Centro de Investigación Biomédica en Red de Bioingeniería, Biomateriales y Nanomedicina (CIBER-BBN), Madrid, Spain
	THEORETICAL AND EXPERIMENTAL ANALYSIS OF OPTICAL PROPERTIES OF Cu2ZnSn(S,SE) ⁴ SOLAR ABSORBERS	RESIDUAL STRESS ASSESSMENT OF CONDUCTORS FOR FUSION MAGNET SYSTEMS	SILVER NANOPARTICLES SUPPORTED ON MESOPOROUS SILICA NANOPAR- TICLES FUNCTIONALIZED WITH PROTEINS: HYBRID NANOSYSTEMS AGAINST TUBERCULOSIS
18.50	<u>Sergiy Zamulko</u> ¹ , Kristian Berland ¹ , Shu-yi Li ² , Charlotte Platzer-Björkman ² , Clas Persson ^{1,3}	Pilar Fernandez Pison ¹² , Ignacio Aviles Santillana ¹² , Stefanie Lang- eslag ¹ , Stefano Sgobba ¹ , Oscar Sacristan De Frutos ¹ , Laura Bianchi ¹³ , Michael Guinchard ¹	Miss Sandra Montalvo-Quirós ⁴ , Prof. María Vallet-Regí ^{1,2} , Dr. Rafael Prados-Rosales ³ , Dr. Jose Luis Luque-García ⁴ , Dr. Blanca González ^{1,2}
	'University Of Oslo. Oslo. Norway. 'Uppsala University. Uppsala, Sweden, 'KTH Royal Institute of Technology, Stockholm, Sweden	¹CERN. Geneva, Switzerland, ²University Carlos III of Madrid, Madrid, Spain, ³University of Pisa, Pisa, Italy	'Facultad de Farmacia, Universidad Complutense De Madrid, Madrid, Spain, 'Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Madrid, Spain, 'Center for Cooperative Research in Bioscience CICbioGUNE, Bizkaia, Spain, 'Facultad de Cien- cias Químicas, Universidad Complutense de Madrid, Madrid, Spain
	STM AND XPS INVESTIGATION OF ZINC(II) TETRAPHENYLPORPHYRIN ADSORPTION ON Au(111) SURFACE: FROM MONOLAYER TO MULTILAYER	ACCURATE AND UNIVERSALLY APPLICABLE DFT CALCULATIONS FOR LARGE SYSTEMS	HEMOCOMPATIBILITY OF COATINGS DEDICATED FOR NOVEL BLOOD CONTACTING DEVICES
19.10	Oreste De Luca ^{1,3} , Dr Tommaso Caruso ^{1,2} , Ilenia Grimaldi ¹ , Dr Marco Papagno ¹ , Dr Alfonso Policicchio ^{1,2,3} , Dr Daniela Pacilé ¹ , Prof. Vincenzo Formoso ^{1,2,3} , Prof Raffaele Giuseppe Agostino ^{1,2,3}	Dr. Stephan Mohr ¹ , <u>Marc Eixarch</u> ¹ , Prof. Dr. Mervi Mantsinen ¹	Phd Aldona Mzyk ¹ , Prof. Roman Major ¹ , Prof. Juergen M. Lackner ² , Prof. Marek Sanak ³ , Prof. Boguslaw Major ¹
	¹ Dipartimento di Fisica, Università della Calabria, Arcavacata Di Rende (Cs.), Italy, ² Consiglio Nazionale Interuniversitario Scienze Fisiche della Materia (C.N.I.S.M), Roma , Italy, ³ CNR-Nanotec, UOS di Cosenza, Arcavacata Di Rende (Cs), Italy	¹ Barcelona Supercomputing Center, Barcelona, Spain	'Institute of Metallurgy and Materials Science PAS, Krakow, Poland, 'Joanneun Research Forschungsges. Institute for Surface Technologies and Photonics, Functional Surfaces, Niklasdorf, Austria, 'Department of Medicine, Jagielloniar University Medical College, Krakow, Poland
19.30			



Symposium	A1 ZU17 A2	A7	B1	B2
Room	I-11/M1	Rehearsal Room 5.17 /M1	Maurice Saltiel Hall I/M2	Aimilios Riadis Hall/M2
Session Title	Interface and Surface Magnetism	Electrodeposition	Advanced Manufacturing	Magnesium
Chairperson	M. Farle	Poi See Lee	Wolfgang Bleck	Eric Nyberg
	KEYNOTE/INVITED SHELL-FERROMAGNETISM	SYNTHESIS OF COPPER AND TIN NANOWIRES BY APPLYINGTEMPLATE-ASSISTED DIRECT AND PULSE ELECTRODEPOSITION	KEYNOTE/INVITED ALTERNATIVE PROCESSING OF ADVANCED HIGH- STRENGTH STEELS BY ADDITIVE MANUFACTURING	HIGHLIGHT DESIGN, PROPERTY AND CHARACTERISATION OF HIGH-STRENGTH Mg-Gd BASED ALLOYS
11.00		Phd Eleni Rosolymou', Maria Emmanouela Kassalia', Associate Professor Evangelia Pavlatou'		Prof. Liming Peng ¹ , Dr. Yu Zhang ¹ , Mr. Wei Rong ¹ , Assoc. Prof. Wu-Juan Wu ¹ , Prof. Jiang-Feng Nle ²
	Dr Asli Cakir ² , Ms Franziska Scheibel ¹ , <u>Prof. Dr. Mehmet Acet</u> ¹ , Prof. Dr. Michael Farle ¹	'School of Chemical Engineering, National Technical University of Athens, Athens, Greece	Dr. Christian Haase ¹ , Jan Bültmann ¹ , Stephan Ziegler ² , Sebastian Bremen ² , Christian Hinke ² , Alexander Schwedt ³ , Dr. Ulrich Prahl ¹ , Prof. Dr. Wolfgang Bleck ¹	¹Shanghai Jiaotong University, Shanghai, China, ªMonash Univerisity, Melbourne, Australia
		ELECTRODEPOSITION OF Bi/GaAS DIODES		HIGHLIGHT ALLOYING ROLE OF Ag ON MICROSTRUCTURES AND MECHANICAL PROPERTIES OF Mg-6d(-Zr) AND Mg-Y(-Zr) ALLOYS
11.20	¹Uiniversity Of Duisburg-Essen, Duisurg, Germany, ²Mugla Sitki Kocman University, Mugla, Turkey	Dr. Alicia Prados ¹ , Dr. Rocio Ranchal ¹	"Department of Ferrous Metallurgy, RWTH Aachen University, Aachen, Germany, "Fraunhofer-Insti- tute for Laser Technology ILT, Aachen, Germany, "Central Facility for Electron Microscopy, RWTH Aachen University, Aachen, Germany	Phd Yu Zhang ¹² , PhD Wei Rong ¹ , Research Asisilant Yujuan Wu ¹ , Prof. Liming Peng ¹ , Prof. Nick Birbilis ² , Prof. Jian-Feng Nie ²
		¹Dpto. Física de Materiales, Fac. de CC. Físicas, Universidad Complutense de Madrid, Madrid 28040, Spain		¹ Shanghai Jiao Tong University, Shanghai. China, ² Monash University, Melbourne, Australia
	HIGHLIGHT MAGNETO-PLASMONIC METASTRUCTURES	COPPER AND COPPER OXIDE-MODIFIED BORON-DOPED DIAMOND ELECTRODES FOR ELECTROCHEMICAL REDUCTION OF CO ₂	EFFECT OF ALLOYING ELEMENTS ON GRAIN SIZE STABILITY OF 18/8 STAINLESS STEEL	PRECIPITATION STRENGTHENING IN Mg-RE ALLOYS
11.40	Ellen Wiedemann ¹ , Dr. Spyridon Pappas ¹ , Sascha Keller ¹ , Markus Rollinger ¹ , Dr. Martin Aeschlimann ¹ , <u>Dr Evangelos Papaioannou</u> ¹	Dr. Tribidasari A. Ivandini , Dr. Yasuaki Einaga²	Hasan Kotan', Ahmet Burcin Batibay	Prof. Xiaoqin Zeng
	¹ Department of Physics and State Research Center OPTIMAS, TU Kaiserslautern, Kaiserslautern, Germany	'Universitas Indonesia, Jakarta, Indonesia, ² Keio University, Yokohama, Japan	¹Konya Neu, Konya, Turkey	'School of Materials Science and Engineering. Shanghai Jiao Tong University, Shanghai, China
	HIGHLIGHT INTERLAYER EXCHANGE COUPLING IN Fe-Pt-MN NANOCOMPOSITE MAGNETIC THIN FILMS	Zno nanorods grown by a novel electrodeposition method	STUDY OF AN ALTERNATIVE MECHANICAL ALLOYING PROCESS FOR OXIDE DISPERSION-STRENGTHENED STEELS MANUFACTURING	THE EFFECTS OF Zn ADDITION ON MECHANICAL PROPERTIES AND MARTENSITIC TRANSFORMATION TEMPERATURE FOR Mg-Sc ALLOY
12.00	<u>Dr. Ovidiu Crisan</u> ¹, Dr. Aurel Leca¹, Dr. Alina Daniela Crisan¹, Dr. Gabriel Schinteie¹, Dr. Victor Kuncser¹	Dr Nikos Boukos ¹ , Dr Elias Sakellis ^{1,2} , Dr Chryssa Chandrinou ¹ , Dr Kostas Giannakopoulos ¹ , Dr Anastasios Travlos ¹	Esther Simondon ¹ , Dr. Pierre-François Giroux ¹ , Dr. Laurent Chaffron ¹ , Dr. Philippe Castany ² , Dr. Thierry Gloriant ²	Yuta Takeuchi ¹ , Dr. Daisuke Ando ¹ , Dr. Yukiko Ogawa Dr. Yuji Sutou ¹ , Dr. Junichi Koike ¹
	¹National Institute For Materials Physics, Magurele, Romania, Magurele, Romania	'National Centre For Scientific Research 'Demokritos', Institute of Manoscience and Manotechnology, Agia Paraskevi Attikis, Greece. ² University of Athens, Physics Department, Section of Solid State Physics, Zografos, Athens, Greece	¹ DEN - Service de Recherches Métallurgiques Appliquées, CEA. Université Paris-Saclay, Gif-sur-Yvette, France, ² INSA Rennes, Rennes, France	¹Tohoku University, Sendai, Japan, ²National Institute for Materials Science, Tsukuba, Japan
	SKYRMIONS IN CYLINDRICAL MAGNETIC NANOWIRES	STUDY OF THE INFLUENCE OF Zr7Ni10 ADDITIVE ON TEMPERATURE - KINETIC CHARACTERISTICS OF ELECTROCHEMICAL PROPERTIES OF MULTI-COMPO- NENT (TiCr1.8)1-xVx ALLOY	STUDY OF PRIOR AUSTENITE GRAIN BOUNDARIES IN ZINC COATED PRESS HARDENED STEEL BY ATOM PROBE TOMOGRAPHY	HIGHLIGHT MARTENSITIC TRANSFORMABLE Mg-Sc BASED ALLOY AND ITS FUNCTIONALITY
12.20	Dr. Michalis Charilaou', Leonardo Pierobon ¹ , Prof. Dr. Jörg F. Löffler ¹	Anastasiya Mironova¹, Maksim Erzhenkov¹, Natalia Medvedeva¹, Natalia Skryabina¹, Daniel Fruchart²	Dr. Christina Hofer ¹ , Dr. Thomas Kurz ² , Prof. Helmut Clemens ¹ , Prof. Ronald Schnitzer ¹	Dr Daisuke Ando', Dr Yukiko Ogawa², Mr Yuta Takeuchi¹, Dr Yuji Sutou¹, Dr Junichi Koike¹
	"Laboratory of Metal Physics and Technology, ETH Zurich, Zurich, Switzerland	Perm State University, Perm, Russian Federation, ² CNRS, Institut Néel, Grenoble, France	¹ Department Of Physical Metallurgy And Materials Testing, Montanuniversität Leoben, Leoben, Austria, ² Voestalpine Stahl GmbH, Linz, Austria	¹Tōhoku University, Sendai, Japan, ²National Institute for Materials Science, Tsukuba, Japan
		MICROSTRUCTURE STUDY OF ANODIC LAYERS FOR BIOMEDICAL APPLICATION	STUDY ON FACTORS AFFECTING TOUGHNESS AND BENDABILITY OF PRESS HARDENING STEEL	
12.40		Studente Djamila Atmani	Seongwoo Kim¹, Jinkeun Oh¹, Yeol-Rae Cho¹, In-Shik Seo¹	
		Centre Développement Téchnologie Avancées (CDTA)/ Universite Technologique Houaril Boumedienne/ USTHB, Algies, Algeria, Centre Développement Téchnologie Avancées (CDTA), Algies, ALGERIA, Universite Technologique Houaril Boumedienne, Algies, Algeria, 'Ecole Militaire Polytechnique bordj El Bahri, Algies, Algeria	POSCO Technical Research Laboratories, Gwangyang-si, Korea	



Symposium	B3	В4	В7	B8
Room	CR I Hall/M2	3.20/M1	CR III Hall/M2	Conference Room 1/M1
Session Title	Oxidation	Mechanical properties and annealing behaviour	MOF Mechanics, Mechanical Properties, and Structural Dynamics	Mechanical Properties
Chairperson	Srdjan Milenkovic	Frank Kümmel	Jin-Chong Tan	Joo Hyun Park
	EFFECT OF PRESSURE ON METAL DUSTING IN CO- RICH SYNGAS OF HIGH TEMPERATURE ALLOYS	KEYNOTE/INVITED ANNEALING STRATEGIES TO IMPROVE THE FORMABILITY OF UFG FERRITE STEELS	IMPACT OF THE MECHANICAL PRESSURE UNDER VARIOUS CONDITIONS ON THE FLEXIBILITY OF VARIOUS METAL ORGANIC FRAMEWORKS	HIGH-ENTROPY ALLOYS: MATERIALS DEVELOPMENT AND PLASTICITY
11.00	Ms Sonja Madloch ¹ , PD DrIng Mathias C. Galetz ¹		Dr. Pascal G. Yot ¹ . Dr. Padmini Ramaswamy ¹ . Dr. Jelle Wieme ² , Dr. Louis Vanduyfhuys ² , Dr. Christian Serre ³ , Pr. Veronique Van Speybroeck ² . Pr. Guillaume Maurin ¹	<u>Dr. Michael Feuerbacher</u> ¹, Carsten Thomas¹
	DECHEMA-Forschungsinstitut, Frankfurt am Main, Germany	<u>Dr. Enrico Bruder</u> ', Jörn Niehuesbernd [†] . Prof. Clemens Müller [†]	'University of Montpellier, Montpellier, France, ² Ghent University, Ghent Belgium, ² Ecole Normale Supérieure de Paris, Paris, France	'Juelich Research Centre, Juelich, Germany
	FACTORS AFFECTING THE OXIDATION OF PURE CHROMIUM AT HIGH TEMPERATURES		HIGHLIGHT GROUP THEORY TO PREDICT MOFs FLEXIBILITY	EFFECTS OF CHEMICAL COMPOSITION OF HEAS FROM Cocifemnni family on Crystal Defects and Mechanical Properties
11.20	Ali Soleimani-Dorcheh ¹ , Prof. Michael Schütze ¹ , Dr. Mathias Galetz ¹	'TU Darmstadt, Darmstadt, Germany	Dr Arnaud Marmier¹	Prof. Anna Fraczkiewicz ¹ , Michal Mroz ¹
	¹ DECHEMA-Forschungsinstitut, Frankfurt Am Main, Germany		¹ University of the West of England, Bristol, United Kingdom	¹ Mines St Etienne, France, St Etienne, France
	LONG-TERM OXIDATION BEHAVIOR OF AN ADVANCED Ti-Al-Nb Alloy in Air At 700 and 800 °C	RECRYSTALLIZATION IN NANOGRAINED STAINLESS STEEL 316LVM ANNEALED UNDER HIGH HYDRO- STATIC PRESSURE	REVEALING THE LINK BETWEEN TERAHERTZ VIBRATIONS AND MECHANICAL PROPERTIES	DEVELOPMENT OF ULTRA-FINE GRAIN MICRO- STRUCTURES IN HIGH-ENTROPY ALLOYS VIA PHASE TRANSFORMATION ASSISTED RECRYSTALLIZATION
11.40	Doctor Mickaël Dadé', Doctor Vladimir Esin', Doctor Loeiz Nazé ¹ , Doctor Pierre Sallot ¹	Phd Agnieszka Krawczynska ¹ , PhD Stanislaw Gierlotka ² , PhD Daria Setman ³ , Professor Malgorzata Lewandowska ¹ , Professor Micheal Zehetbauer ³	Matthew Ryder ^{1,23} , Dr Svemir Rudic ² , Prof Bartolomeo Civalleri ⁴ , Dr Gianfelice Cinque ³ , Prof Felix Fernan- dez-Alonso ² , Prof Jin-Chong Tan ¹	Professor Ivan Guillot! Lola Lilensten¹². Alexander Edwards¹². Clément Keller³. Julie Bourgon¹. Pirès Rémy¹. Loic Perrière¹. Philippe Vermaut². Jean-Philippe Couzinié¹. Frédéric Prima²
	'Mines ParisTech/Centre Des Matériaux P.M. Fourt, Evry, France, 'Safran Tech, Magny Les Hameaux, France	'Warsaw University of Technology, Faculty of Materials Science and Engineering, Warsaw, Poland. ² Institute of High Pressure Physics, Warsaw, Poland. ³ University of Vienna, Faculty of Physics, Vienna, Austria	'University Of Oxford, Oxford, United Kingdom, 'ISIS Neutron & Muon Source Facility, Rutherford Appleton Laboratory, United Kingdom, 'Diamond Light Source, Harwell Campus, United Kingdom, 'University of Turin, Torino, Italy	'Université Paris Est, ICMPE (UMR 7182) CNRS-UPEC, 94320 Thiais, France, 'PSL Research University, Chimie Paris Tech CNRS, Institut de Recherche de Chimie Paris, 75005 Paris, France, 'GPM, INSA Rouen, Université de Rouen, CNRS UMR 6634, BP 08, 76801 St. Etienne du Rouvray, France
	THERMAL CYCLING OXIDATION OF ALX (COCFENI)100-X (x = 0; 3; 6; 9; 12) HIGH ENTROPY ALLOYS IN AIR AT 1273K	PRECIPITATION AND MECHANICAL PROPERTIES OF Cu-2Be ALLOY PROCESSED BY HIGH PRESSURE TORSION.	THERMODYNAMIC APPROACH TO ACCURATELY DETERMINE THE FLEXIBILITY AND LOSS OF CRYS- TALLINITY IN METAL-ORGANIC FRAMEWORKS	EVOLUTION OF STRUCTURE AND PROPERTIES WITH COMPOSITION OF SINGLE-PHASE Cr-Fe-Mn-Co-Ni MULTI-COMPONENTS ALLOYS
12.00	Juliusz Daprowa ¹ , Grzegorz Cieślak ² , Mirosław Stygar ¹ , Aleksander Gil ¹ , Tadeusz Kulik ² , Marek Danielewski ¹	PhD Ivan Lomakin', PhD Anton Bondarenko', PhD Miguel Castillo Rodríguez², PhD Ilchat Sabirov²	Sven M.J. Rogge¹, Jelle Wieme¹, dr. Louis Vanduy- fhuys¹, prof. dr. An Ghysels¹, prof. em. dr. Michel Waroquier¹, prof. dr. Toon Verstraelen¹, prof. dr. Guil- laume Maurin², prof. dr. Veronique Van Speybroeck¹	Dr. Mathilde Laurent-Brocq', <u>Dr. Loïc Perriere</u> ', Rémy Pirès', Dr. Sun Fan², Dr. Sergiy Divinski², Dr. Jean- Philippe Couzinié¹, Pr Ivan Guillot¹, Pr. Gerhard Wilde², Pr. Frédéric Prima²
	'AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland, 'Warsaw University of Technology, Faculty of Materials Science and Engineering, Warsaw, Poland	¹ Saint Petersburg State University, Saint Petersburg, Russian Federation, ² IMDEA Materials, Madrid, Spain	¹ Center For Molecular Modeling, Ghent University, Zwijnaarde, Belgium, ² Institut Charles Gerhardt Mont- pellier, Université Montpellier 2, Montpellier, France	'ICMPE UMR7182 - CNRS/UPEC, Thiais, France, ² University of Münster, Münster, Germany, ³ IRCP UMR8247 CNRS/Chimie ParisTech, Paris, France
	INSIGHT INTO THE OXIDATION RESISTANCE OF REFRACTORY HIGH-ENTROPY ALLOYS COMBINED WITH OPTIMAL DUCTILITY	ULTRA-FINE GRAINED TI-15Mo ALLOY — EFFECT OF REFINED MICROSTRUCTURE ON MECHANICAL PROP- ERTIES AND PHASE TRANSFORMATIONS	ATOMIC FORCE MICROSCOPIC NANOINDENTATION STUDY OF METAL-ORGANIC FRAMEWORK THIN FILM COATINGS AND NANOSHEETS	EFFECT OF PROCESSING CONDITIONS ON MICRO- STRUCTURE AND MECHANICAL BEHAVIOUR OF SELECTED HEA ALLOYS FROM COCFFEMNNI FAMILY
12.20	Mr. Saad Sheikh¹	Ph.D. Josef Stráský¹, Kristína Václavová¹, Anna Terynková¹, Pavel Zháňal¹, Jana Šmilauerová¹, Jozef Veselý¹, Veronika Polyakova², Prof. Irina Semenova², Prof. Miloš Janeček¹	Mr Zhixin Zeng¹, Professor Jin-Chong Tan¹	<u>Julia Olszewska</u> ¹, Prof Anna Fraczkiewicz¹, Dr Jean-Denis Mithieux²
	¹ Surface and Microstructure Engineering, Department of Materials and Manufacturing Technology, Chalmers University of Technology, Gothenburg, Sweden, Gothenburg, Sweden	¹ Charles University , Prague , Czech Republic, ² Ufa State University , Ufa , Russian federation	'University Of Oxford, Oxford, United Kingdom	¹ Ecole Des Mines De St Etienne, Saint Etienne, France, ² APERAM R&D, Isbergues, France
	INFLUENCE OF THE AL CONTENT ON THE COR- ROSION RESISTANCE OF BINARY Fe-AI ALLOYS IN H ₂ SO ₄	EFFECT OF ULTRAFINE-GRAINED FORMATION AND SUBSEQUENT AGING ON STRUCTURAL, MECHANICAL AND TRIBOLOGICAL PROPERTIES OF Cu-Cr-Zr ALLOY	LARGE ELASTIC RECOVERY OF ZINC DICYANOAURATE	NOVEL Co20Cr15Fe26Mn17Ni22 ULTRA-FINE GRAINED HIGH-ENTROPY ALLOY
12.40	Dr. Jian Peng ¹ , Dirk Vogel ¹ , Martin Palm ¹	Daria Shangina ^{1,2} , Dr. Natalia Bochvar ¹ , Prof. Gencaga Purcek ³ , Harun Yanar ³ , Prof. Sergey Dobatkin ^{1,2}	Ms Chloe Simone Chloe ¹ , Mr Matthew R Ryder ² , Dr Joshua Alfred Hill ¹ , Professor Jin-Chong Tan ² , Professor Andrew Leslie Goodwin ¹	Michal Mroz¹. Anna Fraczkiewicz¹
	'Max-planck-institut Für Eisenforschung Gmbh, Düsseldorf, Germany	¹ A.A. Baikov Institute Of Metallurgy And Materials Science, Russian Academy Of Sciences, Moscow, Russian Federation. ¹ National University of Science and Technology "MISIS". Laboratory of Hybrid Nano- structured Materials, Moscow, Russian Federation, ² Department of Mechanical Engineering, Karadeniz Technical University, Trabzon, Turkey	Department of Chemistry, University Of Oxford, Oxford, United Kingdom, Department of Engineering Science, University of Oxford, Oxford, United Kingdom	'Ecole Des Mines De Saint-etienne, Saint-etienne, France
			A THERMODYNAMIC CHARACTERIZATION OF ME- CHANICAL, THERMAL AND ADSORPTION PROPER- TIES OF FLEXIBLE METAL-ORGANIC FRAMEWORKS	
13.00			Dr. Louis Vanduyfhuys I, Sven M.J. Rogge', Jelle Wieme', Steven Vandenbrande', Prof. Michel Waroquier', Prof. Veronique Van Speybroeck'	
			¹ Center For Molecular Modeling, Ghent University, Zwijnaarde, Belgium	

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Symposium	В9	B11	C1	C4
Room	I-08/M1	Maurice Saltiel Hall III/M2	Friends of Music Hall/M1	Conference Room 4/M1
Session Title	Thermodynamics ,MD simulations and Thin Films	Titanium Alloys	Coatings deposition routes and novel characterization techniques 4/5 -Bio-coatings	Additive Manufacturing of metals 2
Chairperson	J. F. Löffler, J. Eckert	Anna Zervaki	R. Cremer, A. R. González-Elipe	Eduard Hryha
	KEYNOTE/INVITED THERMODYNAMICS AND KINETICS OF SOME GLASS FORMING MELTS	EFFECT OF B2-AUSTENITE GRAIN SIZE AND AGING TIME ON NANO-STRUCTURING OF TISNIA PRECIPITATES AND TRANSFORMATION BEHAVIOR OF THERMOMECHANI- CALLY TREATED TITANIUM NICKELIDE	HIGHLIGHT ZINC AND ZINC-IRON NANOPARTICLES AS OXYGEN SCAVENGERS	MICROSTRUCTURAL HETEROGENEITY ALONG THE BUILDING DIRECTION OF INCOMEL 718 PRODUCED BY ELECTRON BEAM MELTING (EBM)
11.00	Prof. Livio Battezzati ¹ , Dr. Gianluca Fiore ¹ , Dr. Alberto Castellero ¹ , Dr. Giulia Dalla Fontana	<u>Dr Elena Ryklina</u> ¹, Ph.D. Student Kristina Polyakova¹, Professor Sergey Prokoshkin¹	Dr. Sebastian Calderon ¹² , Prof. Dr. Paulo Ferreira ²³ , Prof. Dr. Sandra Carvalho ¹	<u>Dunyong Deng</u> ¹ , Professor Johan Moverare ¹ , Professor Ru Lin Peng ¹ , Doctor Hans Söderberg ²
		'National University Of Science And Technology "misis", Moscow, Russian Federation	'University of Minho, Department of Physics, Cam- pus of Azurém, 4800-058 Guimarães, Portugal, Guimaraes, Portugal, IIII International Iberian Nanotechnology Laboratory, Av. Mestre José Veiga s/n, 4715-330, Braga, Portugal, 'Materials Science and Engineering Program, The University of Texas at Austin, Austin, Texas 78712, USA., Austin, USA	¹ Linköping University, Linköping, Sweden, ² Sandvik Machining Solutions AB, Sandviken, Sweden
		CONTINUOUS COOLING TRANSFORMATION BEHAVIOR OF Fe CONTAINING TI ALLOY	PLASMA COATING OF BIODEGRADABLE NANOFIBERS TO GENERATE SMART ANTIBACTERIAL SURFACES	PROCESS-INDUCED ALTERATIONS OF HASTELLOY X POWDER SUBJECTED TO SELECTED LASER MELTING (SLM)
11.20	'Università di Torino, Torino, Italy	Ph.D Yong-taek Hyun'. Do-Heon Kim'. Ph.D Jong Woo Won ¹ , Dae-Won Jeong ²	Dr. Anton Manakhov ¹ , Dr. Dmitry Shtansky ¹ , Ms. Elizaveta Permyakova ¹ , Dr. Irina Sukhorukova ¹ , Ms. Eva Kedronova ²	<u>Mr Hans Gruber</u> ¹ , Mr Eduard Hryha ¹ , Mr Lars Nyborg ¹
		¹ Korea Institute of Materials Science, Changwon, South Korea, ² Dong-A University, Busan, South Korea	'National University of Science and Technology "MISIS", Moscow, Russian Federation, 'Masaryk University, Brno, Czech Republic	¹Chalmers University of Technology, Göteborg, Sweden
	COMPETITION BETWEEN METALLIC GLASS AND QUASICRYSTAL FORMATION IN Mg-BASED ALLOYS	SIZE EFFECT IN TI-Fe-(Sn) ULTRAFINE LAMELLAR EUTECTIC COMPOSITES DURING MICRO/-NANO-IN-DENTATION	CHARACTERIZATION OF WATERBORNE POLYURE- THANE-NANO SILICA COATINGS FOR ICEPHOBIC APPLICATIONS	ADDITIVE MANUFACTURING OF HIGH TEMPERATURE MATERIALS FOR FUSION: A REVIEW OF CURRENT CAPABILITIES AND FUTURE OUTLOOK
11.40	PhD Güven Kurtuldu', PhD Karl Shamlaye', Professor Jörg Löffler ¹	<u>Dr. Tapabrata Maity</u> ¹	M.Sc. Eng. Bartlomiej Przybyszewski ¹² . PhD. Eng. Rafal Kozera ¹² , DSc. PhD. Eng. Anna Boczkowska ¹ . ²	Mr David Hancock ¹² , Dr Mike Curtis-Rouse ³ , Miss Amanda Field ⁴ , Mr David Homfray ¹ , Dr Heather Lew- tas ¹ , Dr Elizabeth Surrey ¹ , Prof. Iain Todd ² , Dr Michael Porton ¹ , Prof. Stewart Williams ³ , Prof. Brad Wynne ¹²
	'Laboratory of Metal Physics and Technology, Department of Materials, ETH Zürich, Zürich, Switzerland	[†] Erich Schmid Institute Of Materials Science, Jahnstrasse 12, Möntan University, Austria	¹ Technology Partners Foundation, Warsaw, Poland, ² Warsaw University of Technology, Warsaw, Poland	Culham Centre for Fusion Energy, Abingdon, United Kingdom, *University of Sheffield Department of Materials Science and Engineering, Sheffield, United Kingdom, *Science and Technologies Facilities Council, Rutherford Appleton Laboratory, Harwell, United Kingdom, *University of Birmingham School of Metallurgy and Materials, Birmingham, United Kingdom, *University of Cranfield School of Aerospace, Transport, and Manufacturing, Cranfield, United Kingdom
	MICROSTRUCTURAL ALTERATIONS AT EQUILIBRIUM AND UNDER TENSILE DEFORMATION OF A Cu-Zr MODEL GLASS BY MOLECULAR DYNAMICS SIMULATIONS	ELEVATED TEMPERATURE MICRO-TENSILE CHARACTERIZATION OF TITANIUM ALLOYS	PLASMA MICRO-NANOTEXTURED 3D SURFACES AND THEIR APPLICATIONS IN WETTING AND LIFE SCIENCES	PROCESSING AND MATERIAL QUALITY CONSIDER- ATIONS OF AM PRODUCED STEELS FOR TOOLING APPLICATIONS
12.00	Mr. Pablo A. Palomino Rico', Prof. Dimitris G. Papa- georgiou ² , Prof. Giorgos A. Evangelakis ¹	<u>Dr. Salahudin Nimer</u> ¹² . Dr. Richard Everett ² , Prof. Marc Zupan ²	Dr. Kosmas Ellinas', Dr. Katerina Tsougeni', Mrs Anastasia Kanioura', Mrs Dionysia Kefalinou', Dr. Kostas Stamatakis', Dr. Panagiota Petrou', Dr. Angeliki Tserepi', Dr. Sotirios Kakabakos', Dr. Evangelos Gogolides'	Dr. Christos Oikonomou¹. Dr. Seshendra Karamchedu¹. Dr. Johnny Sjöström¹
	¹ Department of Physics, University of Ioannina, Greece, ² Department of Materials Science and Engineering, University of Ioannina, Greece	¹ Johns Hopkins University Applied Physics Laboratory, Laurel, United States, ² University Of Maryland, Balti- more County, Baltimore, United States	'NCSR Demokritos, Aghia Paraskevi. Greece	'Uddeholms AB. Hagfors. Sweden
	EFFECT OF CHEMICAL BONDING BETWEEN ALLOYING ELEMENTS ON THE SHORT- AND MEDIUM-RANGE ORDER IN METALLIC GLASSES	IDENTIFICATION OF RELATIONSHIPS BETWEEN HEAT TREATMENT AND FATIGUE CRACK GROWTH OF AB TITANIUMS ALLOYS	SUBLIMATING DRY ICE COATINGS AS A MEANS FOR CONTACTLESS MANIPULATION OF LIQUIDS	INFLUENCE OF HIP ON MICROSTRUCTURE, AND PROPERTIES OF H13 TOOL STEEL MANUFACTURED BY SLM
12.20	<u>Dr Masato Shimono</u> ¹, Dr Hidehiro Onodera¹	Vincent Renon ¹² , Pr Gilbert Henaff ² , Dr Céline Lari- gnon ¹ , Dr Simon Perusin ¹ , Pr Patrick Villechaise ²	Dr Athanasios Milionis¹. Dr Carlo Antonini¹², Dr Stefan Jung¹, Mr Anders Nelson¹. Dr Thomas Schutzius¹, Prof. Dimos Poulikakos¹	Mikaet Åsberg¹, Gunnel Fredriksson¹, PhD Wendy Fredriksson², PhD Sepehr Hatami³, Pavel Krakhmalev¹
	'National Institute for Materials Science, Tsukuba, Japan	¹Irt Saint Exupery, Toulouse, France, ²Institut P', Chasseneuil du Poitou, France	¹ ETH Zurich, Zurich, Switzerland, ² Empa, Dubendorf, Switzerland	¹ Karlstad University, Karlstad, Sweden, ² Bodycote Hot Isostatic Pressing AB, Sweden, ² Swerea IVF AB, Sweden
	AMORPHOUS/AMORPHOUS METALLIC MULTILAYERS	EFFECTIVE APPROACHES TO IMPROVE THE ROOM TEMPERATURE FORMABILITY OF TWO-PHASE TITANIUM ALLOY USING AN INCREMENTAL SHEET FORMING PROCESS	ANODICALLY ELECTRODEPOSITED Pb-Co-Sn COATINGS AS ELECTROCATALYST FOR OXYGEN EVOLUTION REACTION	
12.40	Dr. Florian Spieckermann ¹ . Dr. Marlene Mühlbacher ¹ , Dr. Thomas Schöbert ² , Dr. Christoph Gammer ² , Prof. Dr. Christian Mitterer ³ , Prof. Dr. Jürgen Eckert ^{1,2}	Dr. Evgenia Yakushina¹, Dr. Nicola Zuelli¹, Dr. Paul Blackwell¹	Dr Claudia Carrasco¹, Marisol Maril¹. Pablo Tobosque¹, Dr Carlos Camurri¹	
	"Department of Materials Physics, Montanuniversität Leoben, Leoben, Austria, ² Erich Schmid Institute for Materials Science, Austrian Academy of Sciences, Leoben, Austria, ³ Department of Physical Metallurgy and Materials Testing, Montanuniversität Leoben, Leoben, Austria	¹ Advanced Forming Research Centre. University Of Strathclyde. Renfrew. United Kingdom	¹ Universidad De Concepcion, Concepcion, Chile	
			IMPACT OF SOLVENT COMPOSITION ON FORMATION OF PEMFC ELECTRODE LAYERS	
13.00			Eva Hoffmann¹. Daniela Fischer¹, Martin Thoma¹, Dr. Cornelia Damm¹, Prof. Dr. Wolfgang Peukert¹ 'University Erlangen Nuremberg, Erlangen, Germany	



Symposium	C8	C9	C10	C11
Room	Library Hall/M2	Conference Room 3/M1	F 319/M1	MOYSA Hall/M2
Session Title	Ferrous Alloys and Steels	Material removal processes I	Microstructure formation and mechanically driven transformation	Silicon Materials and Devices
Chairperson	Jan Jezierski, Hongwei Zhang	Luca Settineri	B. Straumal, X. Sauvage	Dimitris Tsoukalas
	PREDICTION OF INFLUENCES OF ALLOY ELEMENTS ON SOLIDIFICATION AND PRECIPITATION BEHAVIOR OF HIGH SPEED STEELS	KEYNOTE/INVITED EFFECT OF MICRO-BLASTING ON THE WEAR BEHAVIOUR OF ARC-PVD COATED TOOLS	HIGHLIGHT HIGH-PRESSURE TORSION INDUCED TRANSFORMATIONS IN TI-BASED ALLOYS	THE MOLECULAR MONOLAYER DOPING: A CONFORMAL AND COST-EFFECTIVE APPROACH FOR NANOELECTRONICS
11.00	Dr Hongwei Zhang ¹² , Dr Keiji Nakajima ³ , Miss Mengmeng Su ¹² , Dr Hiroyuki Shibata ⁴ , Dr Jicheng He ¹²		Askar Kilmametov ¹ , Yulia Ivanisenko ¹ , Boris Straumal ^{1,2} , Andrey Mazilkin ^{1,2} , Mario Kriegel ³ , Olga Fabrichnaya ³ , David Rafaja ³ , Horst Hahn ¹	Sebastiano Caccamo ¹ , Dr. Antonino La Magna ¹ , Dr. Rosaria A. Puglisi ¹
	'Northeastern University, Key Laboratory of Electromagnetic Processing of Materials, Shenyang, China, 'Northeastern University, School of Metallurgy, Shenyang, China, 'KTH Royal Institute of Technology, Department of Materials Science and Engineering, Stockholm, Sweden, 'Tohoku University, Institute of Multidisciplinary Research for Advanced Materials, Sendai, Japan	Assist Prof. DrEng. Georgios Skordaris ¹ , Prof. Dring. Habil., Dring. Eh., Dr.h.c., Konstantinos-Dionysios. Bouzakis ¹ , Dipl.Eng., MSc Paschalis Charalampous ¹ , Dipl. Eng. Tilemachos Kotsanis ¹ , Dring. Emmanouil Bouzakis ²	¹ Karlsruhe Institute of Technology (KIT), Institute of Nanotechnology, 76344 Eggenstein-Leopoldshafen, Germany, ¹ Institute of Solid State Physics, Russian Academy of Sciences, 142432, Chemogolowka, Russia, ³ TU Bergakademie Freiberg, Institute of Materials Science, 09599 Freiberg, Germany	'CNR - IMM, Catania, Italy
	CHARACTERIZATION OF NON-METALLIC INCLUSIONS OBTAINED IN STEEL PROCESSED WITH DIFFERENT CRUCIBLE MATERIALS		HIGHLIGHT FORMATION OF THE Q PHASE IN TI—Fe ALLOYS AND ITS STABILITY AFTER HIGH-PRESSURE TORSION	HIGHLIGHT SELF-ASSEMBLY OF SINGLE SI QUANTUM DOTS IN SIO2 FOR SINGLE ELECTRON TRANSISTORS
11.20	Johannes Gleinig¹, Tim Lippmann¹, Anja Weidner¹, Horst Biermann¹	¹ Aristotle University of Thessaloniki. Thessaloniki. Greece, ² German University of Technology in Oman (GUlech), Department of Engineering, Sultanate of Oman	Dr. M.J. Kriegel ¹ , Dr. A.R. Kilmametov ^{3,4} , Dr. V. Klemm ¹ , A.A. Mazilkin ^{2,3} , Dr. O. Fabrichnaya ¹ , Prof. B.B. Straumal ^{2,3} , Dr. J. Ivanisenko ³ , Prof. H. Hahn ³ , Prof. D. Rafaja ¹	Dr. Karl-Heinz Heinig', Dr. Karl-Heinz Stegemann², Xiaomo Xu', Thomas Pruefer', Dr. Daniel Wolf', Dr. Gregor Hlawacek', Prof. Wolthardt Moeller', Dr. Johannes von Borany'
	'Institute of Materials Engineering. Technical University of Freiberg, Freiberg, Germany		¹ TU Bergakademie Freiberg, Institute of Materials Science, Freiberg, Germany, ² Institute of Solid State Physics, Russian Academy of Sciences, Chernogalovka, Russia, ³ Karlsruhe Institute of Technology, Institute of Nanotechnology, Karlsruhe, Germany, ⁴ Institute of Physics of Advanced Materials, Ufa State Aviation Technical University, Ufa, Russia	'Helmholtz-Center Dresden-Rossendorf HZDR, Dresden, Germany, ² XFAB GmbH, Dresden, Germany
	MARTENSITIC STAINLESS STEEL WITH ULTRAFINE MICROSTRUCTURE PRODUZCED BY SELECTIVE LASER MELTING IN DIFFERENT ATMOSPHERES	EFFECT OF CUTTING CONDITIONS ON MACHINABIL- ITY OF AD 730(TM) DURING HIGH SPEED TURNING WITH PCBN TOOLS	MICROSTRUCTURAL EVOLUTION AND DEFORMATION BEHAVIOR OF IMMISCIBLE Fe-Cu-Ag ALLOYS PROCESSED BY HIGH-PRESSURE TORSION	ELECTRICAL CHARACTERIZATION OF SI NANOCRYS- TAL DEVICES SUITABLE FOR RT-SET OPERATION
11.40	Kamran Saeidi ¹ : Farnoosh Forouzan ² , Frank Lofaj ³ , Zhijjan Shen ¹ 'Department of Materials and Environmental Chem-	Mr. Zhe Chen ¹ , Dr. Ru Peng Lin ¹ , Dr. Jinming Zhou ² , Dr. Volodymyr Bushlya ² , Dr. Rachid M'Saoubi ³ , Dr. Sten Johansson ¹ , Dr. Johan Moverare ¹	Andrea Bachmaier ¹ , Jörg Schmauch ² , Andreas Verch ³ , Reinhard Pippan ¹	Dr. Matteo Belli¹, Mario Alia¹, Dr. Xiaomo Xu², Dr. Cyrille Laviron¹, Dr. Ahmed Gharbi¹, Dr. Mathias Rommel⁴, Dr. Florian Stumpf³, Dr. Thomas Prüfer³, Dr. Daniel Wolf², Dr. Lothar Bischoff³, Dr. Rene Hübner², Dr. Gregor Hlawacek², Dr. Stefan Facsko², Dr. Kart-Heinz Heinig³, Dr. Johannes von Borany², Prof. Marco Fanciull⁵¹
	istry, Arrhenius Laboratory, Stockholm University, Stockholm, Sweden, *Lulea University of Technology, Department of Engineering sciences and Mathematics, Division of Materials Science, Lulea, Sweden, *Institute of Materials Research of the Slovak Academy of Sciences, Košice, Slovakia	Division of Engineering Materials, Linköping University, Linköping, Sweden, "Division of Production and Materials Engineering, Lund University, Lund, Sweden, "Seco Tools AB, Fagersta, Sweden	¹ Erich Schmid Institute of Materials Science, Leoben, Austria, ¹ Experimentalphysik, Saarland University, Saarbrücken, Germany, ¹ IMM-Leibniz Institute for New Materials, Saarbrücken, Germany	'CNR-IMM, Sede di Agrate Brianza, Agrate Brianza, Italy, 'HZDR, Dresden, Germany, 'CEA-LETI, Grenoble, France, 'Fraunhafer-IISB, Erlangen, Germany, 'University of Milano-Bicocca, Department of Materials Science, Milano, Italy
12.00 - 13.00	Session Title: Aluminium Alloys - I Chairpersons: Gokhan Orhan, Alexander E. Karantzalis CORRELATION BETWEEN MELT QUALITY, SOLIDIFI-	DRILLING OF ZINC WROUGHT ALLOYS	SHEAR INDUCED SOLID STATE JOINING OF DISSIMILAR TI ALLOYS	ON THE USE OF THIN TRAPPING LAYERS TO LOCALIZE HYDROGEN PRECIPITATION AND TO FRACTURE SILICON USING THE SMART CUT PROCESS
	CATION RANGE AND HOT TEARING OF AI-Si ALLOYS Muhammet Uludag ¹ , Remzi Cetin ² , Derya Dispinar ³	Prof. DrIng. DrIng. E. h. Dr. h. c. Dr. h. c. Fritz Klocke ¹ , DrIng. DiplWirtIng. Benjamin Döbbeler ¹ , Stefan Baier ¹	Dr. Anibal Mendes¹, Dr. Rimma Lapovok¹, Dr. Ilana Timokhina¹, Dr. Andrey Molotnikov², Dr. Lee Semiatin³	Dr Alain Claverie ¹ , Dr Frederic Mazen ² , Dr Aurélie Royal ^{1,2}
12.00	¹ Bursa Technical University, ² Halic University, ³ Istanbul University	WZL of RWTH Aachen University, Aachen, Germany	¹/FM-Deakin University, Melbourne, Australia, ²Monash University, Melbourne, Australia, ³Air Force Research Laboratory - Wright-Patterson Air Force Base, Wright-Patterson AFB, USA	¹ Cemes Cnrs. Toulouse, France, ² Léti-CEA, Grenoble, France
	CHANGE IN POROSITY OF A356 BY INCREASED HOLDING TIME OF THE LIQUID	HIGHLIGHT EFFECT OF PVD COATING'S MECHANICAL PROPERTIES AND ADHESION ON THE MILLING PERFORMANCE OF COATED CEMENTED CARBIDE INSERTS	ROLE OF PHASE AND STRUCTURE TRANSFORMATIONS TO OBTAIN LOW MODULUS TITANIUM ALLOYS	LOW-TEMPERATURE MICROWAVE-BASED PLASMA OXIDATION AND NITRIDATION OF GERMANIUM AND SILICON
12.20	Muhammet Uludag', <u>Lokman Gemi</u> ². Remzi Cetin², Derya Dispinar ⁴	Assist. Prof. DrEng. Georgios Skordaris', <u>Prof. Dring. Habil.</u> , <u>Dring. E.h., DrkKonstanti-nos-Dionysios Bouzakis'</u> , Dipl Eng. MSc Paschalis Charatampous', Dipl. Eng. Tilemachos Kotsanis', Dr. Roland Bejjani'	Mikhail Petrzhik ¹	Dr. Wilfried Lerch ¹
	1Bursa Technical University, 2Necmettin Erbakan University, 3Halic University, 4Istanbul University	¹ Aristotle University of Thessaloniki, Thessaloniki, Greece, ² Sandvik Coromant, Sweden	'National University of Science & Technology, Moscow, Russia	[†] Centrotherm Photovoltaics AG, Blaubeuren, Germany
	MEASUREMENT OF FLUIDITY OF A356 BY NOVEL OCTOPODS MOULD DESIGN			XPS ANALYSIS OF METAL/OXIDE PILE AND COR- RELATION BETWEEN BINDING ENERGY SHIFT AND PHYSICAL-CHEMICAL EFFECTS DUE TO DIFFERENT ANNEALING PROCESSES
12.40	<u>Murat Colak</u> ¹ , Derya Dispinar ²			Charly Fontaine ¹² , Bernard Pelissier ² , Mickaël Gros-Jean ¹ , Thierry Chevolleau ²
	Bayburt University, ² Istanbul University			'Stmicroelectronics, Crolles, France, 'Laboratoire des technologies de la microélectronique (LTM), Grenoble, France

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Symposium	D1	D2	D3	D8
Room	Artist Café/M1	Museum Hall /M2	I-15/M1	I -16/M1
Session Title	Time-Resolved Studies	Advanced Microscopy Methods	Structural and mechanical properties II	Ab initio free energy calculations
Chairperson	Federico Boscherini, Jozef Keckes	Giovanni Bertoni	Sotirios Ves	Andrew Horsfield
	KEYNOTE/INVITED REVEALING MULTISCALE PHOTOSWITCHING PROCESSES IN SPIN-CROSSOVER MOLECULAR MATERIALS WITH ULTRAFAST X-RAY SCIENCE	HIGHLIGHT IDENTIFICATION OF ORIENTATION RELATIONSHIPS IN STRUCTURAL MATERIALS USING NEO-EULERIAN MAPPING	HIGHLIGHT STRAIN EFFECTS IN TWO-DIMENSIONAL MoS2 AND WS2 CRYSTALS	KEYNOTE/INVITED FREE ENERGY OF DEFECTS IN BODY CENTERED- CUBIC METALS: THEORY AND EXPERIMENTAL VALIDATION
11.00		<u>Dr Robert Krakow</u> *, Dr Robbie J Bennett', Mr Duncan N Johnstone ¹ , Prof Paul AM Midgley ¹ , Prof Catherine MF Rae ¹	Dr Dimitrios Anestopoulos ¹ , Dr Spyridon Gramma- tikopoulos ¹ , Dr George Anagnostopoulos ¹ , Prof Costas Galiois ^{1,2} , Dr John Parthenios ¹ , <u>Prof Konstantinos</u> <u>Papagelis^{1,3}</u>	
	Prof. Eric Collet ¹	¹ University of Cambridge, Department of Materials, Cambridge, United Kingdom	Foundation of Research and Technology Hellas, Insti- tute of Chemical Engineering and High Temperature Processes, P.O. Box 1414, GR-26504, Rio, Greece, *Department of Chemical Engineering, University of Patras, 26504, Rio, Greece, 3Department of Physics, University of Patras, 26504, Rio, Greece	<u>Dr. Mihai-Cosmin Marinica</u> ¹
	¹ University Rennes 1/ CNRS, Rennes, France	OBSERVATION OF DISLOCATIONS IN SCANNING ELECTRON MICROSCOPE	ANISOTROPY AND POISSON'S RATIO OF MgO AT HIGH TEMPERATURES AND AT HIGH PRESSURES	¹Cea, Den, Service De Recherches De Métallurgie
11.20	onersily remes in ones, remes, it unce	<u>Di Wan</u> ¹ , Prof. DrIng. Habil. Afrooz Barnoush ¹	Professor Thomas Duffy ¹ , <u>Professor Ilias Zouboulis²</u>	Physique, F-91191 Gif-sur-Yvette, France
		¹ Department of Mechanical and Industrial Engineering. Norwegian University of Science and Technology, Trondheim, Norway	¹ Princeton University-Department of Geosciences, Princeton, U.S.A., ² National Technical University of Athens-Department of Physics, Zografou/Athens, Greece	
	IN SITU SAXS REGISTRATION WITH NANOSECOND TIME RESOLUTION	TRANSMISSION ELECTRON BACKSCATTER Diffraction for thin film Characterization	COMBINED X-RAY DIFFRACTION AND MICRO-TO- MOGRAPHY UNDER HIGH PRESSURE AND HIGH TEMPERATURE ON THE PSICHÉ BEAMLINE OF SOLEIL	LATTICE DYNAMICS IN HIGH ENTROPY ALLOYS: UNDERSTANDING THE ROLE OF FLUCTUATIONS
11.40	Dr Konstantin Ten ¹⁴ , Dr Edward Pruuel ¹⁴ , Dr Alexey Kashkarov ¹⁴ , Dr Lev Shechtman ²⁴ , Dr Vladimir Zhulanov ²⁴ , Dr Boris Tolochko ³ , student Ivan Rubtsov ⁴	Dr. Mikhail Polyakov ¹ , Dr. Johann Michler ¹ , <u>Dr. Xavier Maeder</u> ¹	Dr. Jean-Paul Itie!, Dr Nicolas Guignot Guignot', Dr Andrew King', Dr Eglantine Boulard', Dr Yann LeGodec ² , Dr Guillaume Morard', Dr Kisha Clark ² , Dr Julien Philippe ² , Dr Jean-Philippe Périllat ³	Dr. Biswanath Dutta ¹ , Dr. Raina J. Olsen ^{2,3} , Dr. Sai Mu ² , Dr. Tilmann Hickel ¹ , Dr. German D. Samolyuk ² , Dr. El- iot D. Spech ¹ , Dr. Hongbin Bei ² , Dr. Lucas R. Lindsay ² , Prof. Jörg Neugebauer ¹ , Prof. Malcolm Stocks ² , Prof. Bennett C. Larson ²
	¹ LIH SB RAS, Novosibirsk. Russian Federation, ² BINP SB RAS, Novosibirsk Russian Federation, ³ ISSCM SB RAS, Novosibirsk. Russian Federation, ⁴ NSU, Novosibirsk. Russian Federation	[†] Empa, Thun, Switzerland	¹ Synchrotron Soleil. L'orme Des Merisiers. Bp 48 Gif Sur Yvette, France. ² IMPMC, Paris, France, ² Laboratoire de Géologie de Lyon, Lyon, France	¹ Max-Planck-Institut Für Eisenforschung GmbH, Düsseldorf (40237, Germany, ³ Materials Science and Technology Division. Oak Ridge National Laboratory, Oak Ridge. USA, ³ U.S. Army Research Laboratory, Adelphi, MD 20783, USA
	IN SITU REAL TIME FAR FIELD IMAGING OF THE (200) X-RAY DIFFRACTION PEAK OF A SINGLE CRYS- TAL SUPERALLOY DURING A HIGH TEMPERATURE CREEP TEST	COMPREHENSIVE CHARACTERIZATION OF STRUCTURAL AND FUNCTIONAL SURFACE PROPERTIES	EXPLORING THE MECHANICAL BEHAVIOR OF FLEX- IBLE AND RIGID METAL ORGANIC FRAMEWORKS (MOF) MATERIALS USING COUPLED SYNCHROTRON LIGHT AT HIGH PRESSURE AND MOLECULAR SIMULATION	INCLUSION OF ANHARMONIC THERMAL EFFECTS ON ELASTIC AND THERMODYNAMIC PROPERTIES OF SOLIDS WITH AB INITIO CALCULATIONS
12.00	Thomas Schenk ^{1,2,6} , Roxane Trehorel ² , Gabor Ribarik ^{4,6} , Alain Jacques ^{1,2,6} , Pierre Bastie ⁵	<u>Nadja Felde</u> ¹² , Luisa Coriand ¹ , Sven Schröder ¹ , Andreas Tünnermann ^{1,2}	Dr. Pascal G. Yot ¹ , Dr. Christian Serre ² , Dr. Vladimir Dmitriev ³ , Dr. Jean-Paul Itiè ⁴ , Pr. Guillaume Maurin ¹	Ph.D. Alessandro Erba¹
	"CNRS, Nancy, France, *JJL, Nancy, France, *JUniversité de Lorraine, Nancy, France, * Eötvös Loránd University, Budapest, Hungary, *LiPhy, Grenoble, France, *Labex DAMAS , Metz, France	Fraunhofer Institute for Applied Optics and Precision Engineering, Jena, Germany, Friedrich-Schiller-Uni- versity, Institute of Applied Physics, Jena, Germany	University of Montpellier, Montpellier, France, 'Ecole Nationale Superieur de Paris, Paris, France, 'European Synchrotron Radiation Facility, Grenoble, France, 'Synchrotron Soleil, Saint-Aubin, France	'Università Degli Studi Di Torino, Torino, Italy
	IN-SITU SYNCHROTRON X-RAY DIFFRACTION STUD- IES ON SOLID-STATE PHASE TRANSFORMATIONS OF AN ADVANCED HIGH STRENGTH STEEL	CORRECTING SAMPLE DRIFT USING FOURIER HARMONICS	IN-SITU PROBES OF GRANULAR MEDIA VIA X-RAY ANALYSIS TO ADVANCE PREDICTIVE MODELS	THERMODYNAMIC MODELING OF σ-FeCr AND ITS EXTENSION INTO MULTICOMPONENT SYSTEMS ASSISTED BY DFT CALCULATIONS
12.20	Ms. Parisa Eftekharimilan ¹ , Mr. Richard Huizenga ¹ , Dr. Marcel Hermans ¹ , Prof. lan Richardson ¹	Mr. G. Bárcena-González ¹ , Mrs MP Guerrero-Leb- rero ¹ , Mrs E. Guerrero ¹ , Mr DF. Reyes ² , Mrs SB. Lagomazzini ¹ , Mr A. Yañez ¹ , Mr J. Pizarro ¹ , Mr D. González ² , Mr PL. Galindo ¹	Ryan Crum ¹ , Minta Akin ¹ , Eric Herbold ¹ , Jon Lind ¹ , Michael Homel ¹ , Ryan Hurley ¹	<u>Dr. Rer. Nat. Aurélie Jacob¹</u> , Dr. rer. nat. Erwin Povoden-Karadeniz¹, Prof. Ernst Kozeschnik¹
	'Delft University of Technology, Delft, Netherlands	¹ Department of Computer Science and Engineer- ing, University Of Cádiz, Cádiz, Spain, ² Department of Material Science and Metallurgy Engineering and Inorganic Chemistry, University of Cádiz, Cádiz, Spain	'Lawrence Livermore National Laboratory, Livermore, USA	'TU Wien - Institute for Materials Science and -Technology, Vienna, Austria
	TIME RESOLVED X-RAY TOMOGRAPHY AND IMAGING FOR MATERIALS PROCESSING	COMPUTATIONAL NANOMETROLOGY FOR THE CHARACTERIZATION OF NANOSTRUCTURE MORPHOLOGIES: ACCURACY AND COMPLEXITY ISSUES		ATOMIC-SCALE MODELING OF Fe-Al-Mn-C ALLOYS USING PAIR MODELS AND THERMODYNAMIC CALCULATIONS
12.40	Dr Robert C. Atwood ¹² , Dr. Nicola Wadeson ¹ , Mr. Chu Lun Alex Leung ²³ , Dr. Mohammed A. Azeem ²³ , Dr. Daniil Kazantsev ²³ , Prof. Peter D. Lee ²³	Dr Vassilis Constantoudis ¹³ , Mr. George Papavieros ¹²³ Mr. Manolis Chatzigeorgiou ¹ , Dr. Kosmas Ellinas ¹⁴ , Dr. Katerina Tsougeni ¹⁴ , Dr. Evangelos Gogolides ¹³⁴		Dr Alexandre Legris ¹ , Jérôme Dequeker ¹ , <u>Dr Rêmy Besson</u> ¹ , Dr Ludovic Thuinet ¹
	¹ Diamond Light Source, Didcot, United Kingdom, ³ Man- chester X-ray Imaging Facility, Research Complex at Harwell, Didcot, United Kingdom, ³ School of Materials, University of Manchester, Manchester, United Kingdom	¹ N.C.S.R. Demokritos , Athens , Greece, ² Department of Physics, Aristalle University of Thessaloniki. Thessaloniki, Greece, ³ Nanometrisis P.C., Athens/Aghia Paraskeui, Greece, ⁴ Nanoplasmas P.C., Athens/Aghia Paraskeui, Greece		¹ Univ. Lille, CNRS, INRA, ENSCL, UMR 8207 - UMET - Unité Matériaux et Transformations, F-59000 Lille, France, Umet, Cité Scientifique, Avenue Paul Langevin, Bât Cé, France
				HIGH-TEMPERATURE DFT CALCULATIONS OF SUB-STOCHIOMETRIC ZrC
13.00				<u>Dr Thomas Mellan¹</u> , Dr Andrew Duff², Prof. Mike Finnis²
14.00				Department of Materials, Thomas Young Centre, Imperial College London, Exhibition Road, London SW7 2AZ, UK, ² Hartree Centre, STFC Daresbury Laboratory, Scientific Computing Department, Warrington WA44AD, UK, ² Department of Materials and Department of Phys- ics, Thomas Young Centre, Imperial College London, Exhibition Road, London SW7 2AZ, UK
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Symposium	D10	E4	E6	F3
Room	CR II Hall/M2	Conference Room 2/M1	Maurice Saltiel Hall II/M2	3-21/M1
Session Title	Fluids I	Steels and alloys	Hybrid materials and Fibre reinforced plastics	Nanobiomaterials and nanotechnology for implants, devices and theranostics II
Chairperson	Serafeim Kalliadasis, Fathollah Varnik	Annette Heinzel	Dirk Lehmhus	Isabel Izquierdo Barba
	KEYNOTE/INVITED UPSCALED PHASE-FIELD EQUATIONS FOR INTER-FACIAL DYNAMICS IN STRONGLY HETEROGENEOUS MEDIA	SINGULARITIES OF TENSILE BEHAVIOR OF ADVANCED AUSTENITIC STEELS OBTAINED BY DIFFERENT COLD PROCESSES	KEYNOTE/INVITED AUTOMATED COMPOSITES MANUFACTURING AND 4D PRINTING OF COMPOSITES	KEYNOTE/INVITED MULTIFUNCTIONAL MESOPOROUS NANOPARTICLES CONTROLLING CELL BEHAVIOR
11.00		Dr Patrick OLIER ¹ , Dr Laurine COURTIN ¹ , Emilien CURTET ¹ , Dr Bouzid KEDJAR ² , Pf Ludovic THILLY ²		
	Dr. Markus Schmuck ¹	DEN-Service de Recherches Métallurgiques Appliquées, CEA, Université Paris-Saclay, F-91191, Gif-sur-Yvette, France : Institut Pprime, UPR 3346 - CNRS/University of Poitiers/ISAE-ENSMA, 86962, Futuroscope Chasseneuil Cedex., France	Prof. Suong Van Hoa	Prof. Thomas Bein ¹
		HIGH TEMPERATURE MECHANICAL BEHAVIOR OF WC-Cu THERMAL BARRIERS FOR FUSION APPLICATIONS Miss Elena Tejado', M. Dias', F. Guerreiro ² ,		
11.20	Maxwell Institute for Mathematical Sciences and	J.B. Correia ³ , T. Palacios ¹ , P.A. Carvalho ²⁴ , E. Alves ² , J.Y. Pastor ¹ "Doto. Ciencia de Materiales-CIME. Universidad	Concordia University, Montreal, Canada	¹ Department of Chemistry, Nanosystems Initiative
	Heriot-Watt University, Edinburgh, United Kingdom	Politécnica de Madrid, Madrid, Spain, ² Instituto de Plasmas e Fusão Nuclear, Instituto Superior Técnico, Universidade de Lisboa, Lisboa, Portugal, ² LNEG, Laboratório Nacional de Energia e Geolo- gia, Lisboa, Portugal, ⁴ CEFEMA, Instituto Superior Técnico, Lisboa, Portugal		Munich (NIM) and Center for Nano Science (CeNS), University of Munich (LMU), (LMU), Butenandtstr.11, 81377, Munich, Germany
	HIGHLIGHT MULTISCALE SIMULATIONS WITH SMOOTHED DISSIPATIVE PARTICLES DYNAMICS	DISSOLUTION CORROSION BEHAVIOR OF 316L AUSTENITIC STAINLESS STEELS IN STATIC LBE: THE IMPORTANCE OF THE STEEL MICROSTRUCTURE AND THERMOMECHANICAL STATE	THERMAL CYCLING OF HEATED FIBRE METAL LAMINATES	ENCRYPTED PEPTIDE SEQUENCE FOR ACTIVATABLE SEQUENTIAL TISSUE AND CELLULAR TARGETING
11.40	Gérôme Faure ¹ , Jean-Bernard Maillet ¹ , Gabriel Stoltz ²	Dr Konstantina Lambrinou¹	Dr.ir. Michiel Hagenbeek	<u>Dr. Alejandro Baeza</u> ¹, Dr. Gonzalo Villaverde¹³, Mss Valentina Nairi², Prof. Maura Monduzzi², Prof. Maria Vallet-Regí¹³
	¹CEA, Paris, France, ²CERMICS, Paris, France	¹ SCK-CEN, Boeretang 200, Belgium	Delft University Of Technology, Delft, Netherlands	Universidad Complutense De Madrid, Madrid, Spain, "Dept Scienze Chimiche e Geologiche, Cagliari Uni- versity, Cagliari, Italy, "Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Madrid, Spain
	LINKING MD SIMULATIONS TO PHASE-FIELD MODELING TO ANALYZE SOLID-LIQUID INTERFACE EFFECTS ON THE GROWTH KINETICS	IMPACT OF ULTRA HIGH PRESSURE WATER JETTING ON AUSTENITIC STAINLESS STEEL FOR NUCLEAR DECONTAMINATION	ADVANCED HYBRID ENGINEERING MATERIALS - METHODS FOR ANALYSING COMPLEX FAILURE MECHANISMS	POLYMERIZATION OF CATECHOLS WITH AMMONIA: A SUCCESFUL APPROACH FOR BIOCOMPATIBLE POLYDOPAMINE-LIKE COATINGS IN HEALTH
	Dr. Mohammed Guerdane	Mrs Irina Nedyalkova P.¹, Dr Dirk Engelberg L.², Mr Alex Jenkins³, Dr Gareth Law T.W.¹	Dr. Axel von Hehl ¹ , Arne Kunze ¹ , Dr. Jens Schumacher ¹	Prof. Daniel Ruiz Molina ¹
12.00	¹ Karlsruhe Institute of Technology, Karlsruhe, Germany	Centre for Radiochemistry Research, School of Chemistry, The University Of Manchester, Oxford Road, M13 9PL, Manchester, United Kingdom, "Corrosion Protection Centre, Scholl of Materials, The University of Manchester, Sackville Street, M13 9Pl, Manchester, United Kingdom, "Decontamination Centre of Expertise, 8582 Ground Floor North, Sellafield Ltd, CA20 1PG, Sellafield, United Kingdom	'IWT Stiftung Institut für Werkstofftechnik, Bremen, Germany	[†] lcn2, Campus UAB, 08193, Bellaterra, Spain
	DIFFUSE INTERFACE MODELS OF SOLIDIFICATION IN THE PRESENCE OF HYDRODYNAMIC TRANSPORT: THE THIN INTERFACE ASYMPTOTIC	INDUSTRIAL NITRIDE HARDENING OF EUROFER97 FOR IMPROVED FATIGUE LIFETIME	DEVELOPMENT AND MATURATION OF NEW ENVI- RONMENTALLY FRIENDLY AERONAUTICAL PROCESS TECHNOLOGIES WITHIN THE FRAME OF CLEAN SKY1 AND CLEAN SKY2 PROGRAMS	HYBRID CORE-SHELL GOLD NANOSHELL/SILICA Nanomaterials: Sol-gel synthesis and Characterization of Interfaces
12.20	Prof. Dr. Fathollah Varnik ¹ , M.Sc. Amol Subhedar ¹ , Prof. Dr. Ingo Steinbach ¹	Dr. Jan Hoffmann ¹ , Michael Seitz ¹ , Dr. Michael Rieth ¹ , Patrick Margraf ² , Dr. Robin Senn ² , Dr. Michael Klimen- kov ¹ , Rainer Lindau ¹ , Siegfried Baumgärtner ¹ , Ute Jäntsch, Dr. Peter Franke ¹ , Prof. Dr. Anton Möslang ¹	Dr. Alexandra Karanika ¹ , Dr. Dimitrios Grimanelis ¹ , Dr. Roubini Marini ¹ , Mr Konstantinos Mousoutzanis ¹	Dr. Joachim Allouche ¹ , Dr. Samantha Soulé ¹ , Dr. Jean-Charles Dupin ¹ , Dr. Anne-laure Bulteau ¹ , Dr. Stéphane Faucher ¹ , Pr. Gaëtane Lespes ¹ , Jean-Bernard Ledeuil ¹ , Arnaud Uhart ¹ , Dr. Carole Aimé ² , Bernard Haye ² , Dr. Thibaud Coradin ² , Pr. Hervé Martinez ¹
	'ICAMS. Ruhr-University Bochum	¹ Karlsruhe Institute For Technology (KIT), Eggenstein-Leopoldshafen. Germany, ² Gerster AG, Egerkingen, Switzerland	'Hellenic Aerospace Industry S.A., GR-32009 Schimatari , Greece	Institut des Sciences Analytiques et de Physico-chimie pour l'Environnement et les Materiaux (IPREM) UMR 5254 CNRS/Inversité de Pau et des Pays de l'Adour (UPPA), Pau, France. L'aboratoire de Chimie de la Matière Condensé de Paris (LCMCP), Sorbonne Universités, UPMC Univ Paris 06, CNRS, Paris, France
	DISCRETE MULTIPHYSICS: A HYBRID MODELLING TECHNIQUE COMBINING SMOOTH PARTICLE HYDRODYNAMICS, COARSE-GRAINED MOLECULAR DYNAMICS AND THE DISCRETE ELEMENT METHOD	IN-SITU, TIME DEPENDENT STUDY OF URANIUM ENCAPSULATED IN GROUT	WELDABLE METALLIC FORCE TRANSMISSION ELEMENTS IN FIBRE REINFORCED THERMOPLASTICS	MULTIFUNCTIONAL CORE-SHELL NANOPARTICLES FOR TREATMENT OF OVARIAN CANCER
	Dr Alessio Alexiadis ¹	Dr Camilla Stitt ¹ , Mr C Paraskevoulakos ¹ , Dr N J Harker ² , Mr A Banos ¹ , Dr K R Hallam ¹ , Dr C P Jones ¹ , Professor T B Scott ¹	Arne Kunze ¹ , Axel von Hehl ¹ , Hans-Werner Zoch ¹	<u>PhD Sandra Sanchez-Salcedo</u> ^{1,2} , PhD Maria Vallet-Regi ^{1,2} , PhD Fuyuhiko Tamanoi ³ , PhD Carlotta Glackin ⁴ , PhD Jeffrey I. Zink ⁵
12.40	'University of Birmingham, Birmingham, United Kingdom	University of Bristol, Bristol, United Kingdom, *European Synchrotron Radiation Facility, Grenoble, France	'Stiftung Institut Für Werkstofftechnik IWT. Bremen, Germany	¹ Department of Inorganic and Bioinorganic Chemistry, Universidad Compulense de Madrid, Hospital 12 de Cclubre, Madrid, Spain, CiBER-BBN, Spain, Madrid Spain, ³ Department of Microbiology Immunology and Molecular Genetics. University of California Los Ange- les, Los Angeles, EEUU, ⁴ Department of Neurosciences, City of Hope, Duarte Beckman Research Institute, Duarte, EEUU, ³ Department of Chemistry and Biochem- istry, University of California Los Angeles, Los Angeles, EEUU
				MULTIFUNCTIONAL METAL OXIDE NANOPARTICLES FOR TRACKING AND IMAGING WITH POTENTIAL APPLICATIONS IN RADIOTHERAPY
13.00				Magali Lavenas ¹³ , Dr Marina Simon ² , Dr Herve Seznec ² , Prof Joao Rocha ³ , Prof Luis Carlos ³ , <u>Dr Marie Helene Delville¹</u> **ICMCB/CNRS, Université de Bordeaux, ICMCB, Pessac,
				France, ² CNRS Univ. Bordeaux, CENBG, UMR 5797, Gradignan, France, ³ Universidade de Aveiro, CICECO, Aveiro, Portugal



Symposium	A2	A7	B1	B2
Room	I-11/M1	Rehearsal Room 5.17 /M1	Maurice Saltiel Hall I/M2	Aimilios Riadis Hall/M2
Session Title	Magnetic Anisotropy	Sensing	Thermomechanical Controlled Processing I	Titanium
Chairperson	Radek Zboril	David Maestre	Ronald Schnitzer	Hans Seifert
	HIGHLIGHT ROTATABLE MAGNETIC ANISOTROPY IN THIN FILMS DISPLAYING STRIPE DOMAINS	HIGHLIGHT Zno nanonets: Functional Nanomaterials Designed for electrical detection	CHARACTERIZATION OF THE RECRYSTALLIZATION BEHAVIOR OF HOT ROLLED STEELS	THE HIERARCHY OF MICROSTRUCTURE PARAME- TERS AFFECTING TENSILE DUCTILITY IN CAST AND FORGED TI-834 ALLOY DURING HIGH TEMPERATURE EXPOSURE
15.00	<u>Dr. Marco Coïsson'</u> , Dr. Gabriele Barrera¹, Dr. Federica Celegato¹, Dr. Paola Tiberto¹	<u>Fanny Morisot</u> ¹ , Thomas Demes ¹ , Valérie Stambouli ¹ , Michel Langlet ¹ , Mireille Mouis ² , Céline Ternon ^{1,3}	Raphael Esterl ¹ , Markus Sonnleitner ² , Helmut Spindler ² , Günter Wölger ¹ , Ronald Schnitzer ¹	Dr Soran Birosca ¹
	¹ INRIM, Nanoscience and Materials Division, Torino, Italy	Univ. Grenoble Alpes, Grenoble-inp, LMGP, France, ² Univ. Grenoble Alpes, Grenoble-inp, IMEP-LAHC, France, ³ Univ. Grenoble Alpes, Grenoble-INP, LTM, France	Montanuniversität Leoben, Department of Physical Metallurgy and Materials Testing, Leoben, Austria, ² voestalpine Stahl GmbH, Linz, Austria	'Swansea University , Swansea, United Kingdom
	LOW-DIMENSIONAL RUDDLESDEN-POPPER NICKELATES La4(NixCo1-x)3010: EFFECTS OF COBALT DOPING ON PHYSICAL PROPERTIES AND DIMENSIONALITY	NANOSTRUCTURED INTERFACE OF OCM RESONATORS FOR BIOSENSING APPLICATIONS	MICRO-ALLOYED HIGH STRENGTH STEELS FOR FORGINGS	MICROSTRUCTURAL EVOLUTIONS DURING LONG-TERM AGEING IN TITANIUM ALLOY TI-17
15.20	<u>Dr. Susmit Kumar</u> ¹, Mr. Marius Uv Nagell\², Prof. Anja Olafsen Sjåstad¹, Prof. Helmer Fjellvåg¹	Mr. Juan Antonio Rubio-Lara ¹ . Prof. Mark Welland ¹	Dr Giuseppe Napoli¹, Professor Andrea Di Schino¹, Dr Sabrina Mengaroni². Dr Stefano Neri²	Nicolas Maury ¹² , Dr Jaafar Ghanbaja ¹ , Sylvie Migot ¹ , Dr Moukrane Dehmas ³ , Dr Elisabeth Aeby-Gauti- er ¹⁴ , Dr Claude Archambeau-Mirguet ² , Dr Jérôme Delfosse ⁵
	¹ Centre for Materials Science and Nanotechnology (SMN), Department of Chemistry, University of Oslo, P.O. Box 1033, NO-0315, Oslo, Norway, ³ Institute for Energy Technology (IFE), P.O. Box 40, NO-2027, Kjeller, Norway	¹ University of Cambridge, Cambridge, United Kingdom	Dipartimento Ingegneria-Università Degli Studi Di Perugia, Terni, Italy, Acciai Speciali Terni, Terni, Italy	Institut Jean Lamour - UMR 7198 CNRS-Université de Lorraine, Nancy, France, 'Airbus Operations S.A.S., Toulouse, France, 'Cirimat - Université de Toulouse, Toulouse, France, 'Labex 'DAMAS' - Université de Lorraine, Nancy, France, 'Airbus Group S.A.S Airbus Group Innovations, Suresnes, France
	HIGHLIGHT HYSTERESIS IN MIXED ANISOTROPY Co/Pt BASED MULTILAYERS UNDER OBLIQUE FIELDS	HIGH-TEXTURED ZINC OXIDE THIN FILMS DEDICATED TO THE DETECTION OF HYDROGEN SULFIDE	ADVANCED THERMO-MECHANICAL PROCESSING OF A MODERN HIGH STRENGTH LOW ALLOY STEEL	MICROSTRUCTURE AND MECHANICAL PROPERTIES OF 8 FORGING METASTABLE TITANIUM ALLOY TI-7333
15.40	Prof loannis Panagiotopoulos ¹ , Mr Anastasios Markou ^{1,2} , Dr Angelos Mourkas ¹ , Prof Laurentiu Stoleriu ³ , Prof Alexanru Stancu ³	<u>Prof Didier Fasquelle</u> ¹	Carina Ledermüller ¹ . Huijun Li ² . Sophie Primig ¹	Nana Chen', Shubo Liu', Hongchao Kou', Jinshan Li
	¹ University Of loannina, loannina, Greece, ² Max Planck Institute for Chemical Physics of Solids, Dresden, Germany, ³ Alexandru loan Cuza University, lasi, Romania	[†] University Of Littoral Cote D'opale, Calais, France	¹ School of Materials Science and Engineering, UNSW Sydney, Sydney, Australia, ² Faculty of Engineering and Information Science, University of Wollongong, Wollongong, Australia	'State Key Laboratory of Solidification Processing, Northwestern Polytechnical University, Xi'an 710072, China
	GROWTH, MICROSTRUCTURE AND PROPERTIES OF Fe, Ni and Co Nanowhisker	NANOPOROUS GOLD OBTAINED FROM A METALLIC GLASS PRECURSOR AS SUBSTRATE FOR SURFACE ENHANCED RAMAN SCATTERING	EFFECT OF TEXTURE, CRYSTAL ANISOTROPY AND MICROSTRUCTURAL HETEROGENEITY ON THE CHARPY IMPACT TOUGHINESS BEHAVIOUR OF LOW CARBON STEELS	CHARACTERIZATION OF PHASE TRANSITIONS IN BETA TI ALLOY BY DILATOMETRY
16.00	<u>Gunther Richter</u> '. Wenting Huang'	Dr. Y. Xue ¹ , Dr. F. Scaglione ¹ , Dr. E.M. Paschalidou ¹ , Prof. P. Rizzi ¹ , <u>Prof. Livio Battezzati</u> ¹	Lorena Sanz', Dr. Beatriz Pereda !, Prof. Beatriz López', Prof. Jose Mª Rodriguez-Ibabe!	Pavel Zhanal ^{1,2} , Ph. D. Petr Harcuba ¹ , Ph. D. Jana Smi- lauerova ¹ , Ph. D. Michal Hajek ¹ , Ph. D. Jozef Vesely ¹ , Prof., Ph. D. Milos Janecek ¹
	¹ Max Planck Institute For Intelligent Systems, Stuttgart, Germany	¹ Università di Torino, Torino, Italy	'Ceit And Tecnun, Donostia - San Sebastian, Spain	Charles University, Department of Physics of Mate- rials, Prague, Czech Republic, 'Research Centre Rez, Husinec, Czech Republic
	MAGNETIC PROPERTIES OF Co-DOPED MnBi	HIGHLIGHT SELF-PROPAGATING SYNTHESIS OF DUCTILE RUAL INTERMETALLIC FROM NANOSCALE REACTIVE MUL- TILAYERS — FUNDAMENTALS AND PROSPECTIVE APPLICATIONS	ON THE (TI, Mo)C CLUSTER AND PRECIPITATE FOR- MATION IN ADVANCED HIGH STRENGTH STEELS	DEFORMATION INDUCED FORMATION OF NANO/ ULTRAFINE-TRIMORPHIC STRUCTURE IN TI-5553 ALLOY
16.20	MSc Konstantina Kanari'. <u>Dr Charalampos Sarafidis'</u> . Dr Margariti Gjoka², MSc George Sempros¹, Dr Orestis Kalogirou'	Prof.DrIng. Frank Mücklich ¹ , DrIng. Karsten Woll ² , M.Sc. Christoph Pauly ¹	Dr. Jiangting Wang ¹ , Assoc. Prof. Matthew Weyland ² , Ilias Bikmukhametov ¹ , Peter Hodgson ¹ , Ilana Timokhina ¹	Dr. Jiangkun Fan¹
	¹ Department Of Physics, Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece, ² Institute of Nanoscience and Nanotechnology, NCSR [*] Demokritos [*] , Athens, Greece, Agia Paraskevi, Greece	¹ Saarland University, Saarbrücken, Germany, ² Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen, Germany	Institute for Frontier Materials, Deakin University, Waum Ponds, Geelong, Australia, 'Monash Centre for Electron Microscopy & Department of Materials Science and Engineering, Monash University, Clayton, Australia	Northwestern Polytechnical University, Xi an, China
	MAGNETO-CHAINS OF MAGNETIC NANOPARTICLES: FABRICATION AND PROPERTIES	ALUMINIUM NANOPARTICLES EMBEDDED IN MESOPOROUS aSi-H	DEVELOPED ULTRAFINE GRAINED HIGH STRENGTH LOW CARBON STEELS	IN SITU PREPARATION OF B-TITANIUM ALLOY MATRIX COMPOSITES REINFORCED WITH B4C PARTICLES
16.40	MSc Student Eirini Myrovali [*] , MSc Student Nikos Maniotis [*] , MSc Student Antonis Makridis [*] , Doctor Theodoros Samaras [*] , Researcher Ulf Wiedwald ² , Doctor Makis Angelakeris [*]	M.Sc. Torunn Kjeldstad ¹ , Ph.D. Annett Thøgersen ² , Prof. Edouard Monakhov ¹ , Ph.D. Augustinas Galeckas ¹	Prof. Mamdouh Eissa', Prof. Ahmed Al-Sheikh'. Prof. Taha Mattar ¹ , Engineer Hassan Bahaa-Eldin'	Dr. Rodrigo Contieri ¹ , MEng Student Vitor Rielli ¹
	¹ Physics Department, Aristotle University of Thes- saloniki, Thessaloniki, 54124, Greece, ² Fakultät für Physik and Center for Nanointegration Duisburg-Essen (CeNIDE), Duisburg-Essen, 47048, Germany	¹ University Of Oslo, Department of Physics, Oslo, Norway, ² SINTEF, Oslo, Norway	Steel Technology Department, Central Metallurgical Research And Development Institute "CMRDI", Helwan, Egypt. "Mining, Petroleum and Metallurgy Department, Faculty of Engineering, Caira University, Guiza, Egypt	¹ University Of Campinas (unicamp), Campinas, Brazil



Symposium	B4	В7	B8	В9
Room	3.20/M1	CR III Hall/M2	Conference Room 1/M1	I-08/M1
Session Title	Fatigue and Al-alloys	Theory and Materials Modelling	Microstructure Characterization, Mechanical and Other Properties	BMG alloy development and mechanical properties
Chairperson	Anton Hohenwarter	Arnaud Marmier	Ivan Guillot	Livio Battezzati, Mariana Calin
	ENHANCED FATIGUE LIVES OF ULTRAFINE-GRAINED LAMINATED METAL COMPOSITES PRODUCED BY ACCUMULATIVE ROLL BONDING	KEYNOTE/INVITED TOWARDS A MOLECULAR LEVEL UNDERSTANDING OF METAL-ORGANIC FRAMEWORKS	HIGHLIGHT Hf. Mo AND Zr TRACE ELEMENTS INFLUENCING THE ALIOCOZSOr of Fe 1,5 Ni s,1 Ti compositionally complex ALLOY	HIGHLIGHT ROLE OF MINOR ADDITION OF 'SOFT' METALLIC ELEMENTS IN FORMATION AND PROPERTIES OF TI-BASED BULK METALLIC GLASSES
15.00	Frank Kümmel ¹ , PD DrIng. habil. Heinz Werner Höppel ¹ , Prof. Dr. rer. nat. Mathias Göken ¹		Dr. Anna Manzoni ¹ , Mrs. Christiane Förster ¹ , Mr. Christoph von Schlippenbach ¹ , Prof. Marwan Mousa ² , Prof. Uwe Glatzel ² , Dr. Nelia Wanderka ¹	<u>Prof. Mariana Calin</u> ¹, Dr. Supriya Bera¹, Dr. Baran Sarac³, Parthiban Ramasamy¹, Prof. Mihai Stoica³, Prof. Jürgen Eckert³
	'Friedrich-Alexander-Universität Erlangen-Nürnberg; Department of Materials Science and Engineering (WWI), Erlangen, Germany	Prof. Dr. Ir. Veronique Van Speybroeck ¹	¹ Helmholtz-Zentrum Berlin Für Materialien Und Energie GmbH, Berlin, Germany, ² University Bayreuth, Metals and Alloys, Bayreuth, Germany, ³ Dept. of Physics, Mu'tah University, Al-Karak, Jordan	¹ Leibniz Institute for Solid State and Materials Research Dresden, Dresden, Germany, ² Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria, ³ Department of Materials, ETH Zürich, Zürich, Switzerland
	NEWH INSIGHTS INTO STRUCTURAL INSTABILITIES INITIATED UNDER CYCLIC LOADING CONDITIONS		COMPARISON OF MECHANICAL PROPERTIES OF CYMIFECON, CU AND TimaZrz; Hf1; ND2m2ra; HIGH ENTROPY ALLOYS WITH THE DIFFERENT CRYSTAL LATTICE IN THE TEMPERATURE RANGE OF 4.2 – 293 K.	HIGHLIGHT EXCEPTIONALLY BROAD COMPOSITIONAL RANGE FOR BULK METALLIC GLASS FORMATION IN THE Mg-Cu-yb System
15.20	Marlene Kapp¹, Dr. Oliver Renk¹, Dr. Thomas Leitner², Dr. Bo Yang¹, Prof. Dr. Reinhard Pippan¹	¹Ghent University - Center For Molecular Modeling. Belgium	Mr Yuriy Shapovalov ¹ , PhD Elena Tabachnikova ¹ , PhD Aleksey Podolskiy ¹ , Dr Viktor Gorban ² , Dr Sergey Firstov ²	Dr. Kart Shamlaye ¹ . Dr Kevin Laws ² . Professor Joerg Loeffler ¹
	"Erich Schmid Institute Of Materials Science, Leoben, Austria. ² Montanuniversität Leoben, Leoben, Austria		¹ B. Verkin Institute for Low Temperature Physics and Engineering of the NAS of Ukraine, 47 Nauky Ave., Kharkiv, Ukraine, ¹ Frantsevich Institute for Problems of Materials Science of the NAS of Ukraine, ³ Krzhizha- novsky Str., Kyiv-142, Ukraine	¹ ETH . Switzerland. ² The University of New South Wales. Sydney. Australia
	ON THE LOW CYCLE FATIGUE BEHAVIOR OF ULTRA-FINE GRAINED COPPER AFTER FRICTION-STIR	COST-EFFECTIVE AB INITIO COMPOSITE METHODS AS APPLIED TO THE STUDY OF METAL-ORGANIC FRAMEWORKS	INFLUENCE OF HEAT TREATMENT ON MECHANICAL PROPERTIES OF Cocrnifeti Base High Entropy Alloy	HIGHLIGHT EXPLORING NOVEL FUNCTIONALITIES OF METALLIC GLASSES
15.40	Mr. Salar Salahi [†] , Prof. G. Guven Yapici [†]	<u>Prof. Bartolomeo Civalleri</u> ', Mr Lorenzo Donà ¹ , Dr. Jan Gerit Brandenburg ²	Msc Igor Moravcik ¹ , Phd Jan Cizek ¹ , Prof. Ivo Dlouhy ¹	Dr Konstantinos Georgarakis¹
	'Ozyegin University, Istanbul, Turkey	Department of Chemistry, University of Torino, Torino, Italy, Department of Chemistry, University College London, London, United Kingdom	¹ Brno University Of Technology, Brno, Czech Republic	'Cranfield University, Cranfield, United Kingdom
	COMPARISON OF PLASTIC STRAIN DISTRIBUTIONS AND DEFORMATION MECHANISMS IN COARSE AND UFG AL 5083 ALLOY IN TENSION, AT VARIOUS STRAIN RATES, AND DURING CREEP	EXPLORING THE FLEXIBILITY OF MIL-47(V)-TYPE MATERIALS USING FORCE FIELD MOLECULAR DYNAMICS SIMULATIONS	CUMULATIVE EFFECT OF DIFFERENT NUMBER OF ATOM TYPES IN FCC-STRUCTURED HEA ON MICRO- STRUCTURE AND MECHANICAL PROPERTIES	HIGHLIGHT TENSILE CREEP AND PHYSICAL MECHANISM IN A Cu46Zr46Al8 METALLIC GLASS
16.00	Mrs Anchal Goyat ¹² , Dr Veronique Doquet ¹²	<u>Jelle Wieme</u> ¹ , Louis Vanduyfhuys ¹ , Sven M.J. Rogge ¹ , Michel Waroquier ¹ , Veronique Van Speybroeck ¹	Pramote Thirathipviwat ^{1,2} , Junhee Han ¹ , Jens Freudenberger ¹ , Thomas Gemming ¹ , Kornelius Nielsch ^{1,2}	Prof. Jean-marc Pelletier ¹ . Dr J.C. QIAO ² , Prof. Yao YAO ³
	'CNRS, Laboratoire de Mécanique des Solides, Palaiseau, France, 'Ecole Polytechnique, Université Paris-Saclay, Palaiseau, France	¹ Center For Molecular Modeling, Ghent University, Zwijnaarde, Belgium	¹ IFW Dresden, Dresden, Germany, ² TU-Dresden, Dresden, Germany	¹ Mateis Insa-Iyon, Villeurbanne, France, ² NWPU, Xi'an, P.R. China, ² NWPU, Xi'an, P.R. China
	THE INFLUENCE OF THE GRAIN SIZE OF SPD-PRO- CESSED AI-Mg-Mn ALLOY ON DYNAMIC STRENGTH	HIGHLIGHT TUNING METAL-ORGANIC FRAMEWORKS PROPERTIES TOWARDS ENHANCED CATALYTICAL PERFORMANCES. ADVANCES IN COMBINED EXPERIMENTAL-COMPUTATIONAL APPROACHES	CHARACTERIZATION OF NON-METALLIC INCLUSIONS IN Cocrfemnni High-Entropy Alloy	ABNORMAL INTERNAL FRICTION AND PLASTICITY IN THE IN-SITU Ti60Zr15V10Cu5Be10 METALLIC GLASS MATRIX COMPOSITE
16.20	Ph. D. Anastasiia Petrova ¹ . Professor Irina Brodova ¹ . Professor Sergey Razorenov ² . Mr Evgeniy Shorokhov ²	Caroline Mellot-Draznieks ¹	Ms. Nuri Choi ¹ , Mr. Hyun Seok Oh ² , Professor Eun Soo Park ² , Professor Joo Hyun Park ¹	<u>Dr. Jichao Qiao</u> ¹. Professor Jean-Marc Pelletier², Professor Yao Yao¹
	'M.N. Miheev Institute Of Metal Physics Of Ural Branch Of Russian Academy Of Sciences, Ekaterinburg, Russian Federation, ² Institute of problems of chemical physics, Russian academy of sciences, Chernogolovka, Russian Federation, ³ Russian federal nuclear center, Zababakhin all-Russian scientific research institute of technical physics, Snezginsk, Russian Federation	¹ College De France, CNRS, UPMC Univ Paris 6, Paris, France	'Hanyang University, Ansan, South Korea, ² Seoul National University, Seoul, South Korea	¹ Northwestern Polytechnical University, Xi [*] an, China, ² INSA de Lyon, Villeurbanne cedex, France
			INFLUENCE OF DEFORMATION ON MICROSTRUC- TURAL EVOLUTION AND SUBSEQUENT MECHANICAL PROPERTIES OF SEVERAL HIGH ENTROPY ALLOYS	
16.40			Dr. Kwang Seok LEE ^I , Dr. Jong Woo WON, Dr. Ka Ram LIM, Dr. Young Sang NA	
			'Korea Institute Of Materials Science, Changwon, South Korea	
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Symposium	B10	C1	C3	C4
Room	CR I Hall/M2	Friends of Music Hall/M1	Maurice Saltiel Hall III/M2	Conference Room 4/M1
Session Title	Corrosion & Wear IV	Coatings deposition routes and novel characterization techniques 5/5 -Multi-coatings	Synthesis and processing	Additive Manufacturing of polymers 2
Chairperson	Stefanos Skolianos	D.S. Calderon, A. Weisenburger	Lars Nyborg	Sebastian Piegert
	EFFECT OF SI ADDITION ON THE MICROSTURUCTURE AND WEAR RESISTANCE OF AS-CAST Mg-5Sn ALLOY	HIGHLIGHT MICROSTRUCTURAL CONTROL OVER POROUS OXIDE MULTILAYERS PREPARED BY MS FOR ENVIRONMEN- TALLY STABLE 1D PHOTONIC STRUCTURES	HIGHLIGHT EFFECT OF POST-SYNTHESIS THERMAL TREAT- MENTS ON SOLUTION COMBUSTION SYNTHESIS OF (Ni,Fe) Cr ₂ O ₄ PIGMENT	ADDITIVE MANUFACTURING APPROACHES FOR SPACE EXPLORATION ACTIVITIES
15.00	<u>Dr. Erdem Karakulak</u> ', Yusuf Burak Küçüker ¹	Mr. Aurelio García-Valenzuela ¹ , Dr. Carmen López-Santos ¹ , Dr. Rafael Alvarez ¹ , Dr. Victor Rico ¹ , Dr. Ramon Escobar-Galindo ² , Dr. Mercedes Alcón ² , Dr. Alberto Palmero ¹ , Prof. Agustin R. González-Etipe ¹	Dr. Sergio Mestre ¹ , Dña. Jessica Gilabert ² , Dra. María Dolores Palacios ¹ , Dr. Vicente Sanz ¹	<u>Stefan Siarov'</u> , Aidan Cowley ¹ , Miranda Frateri ² , Oriane Garcia ¹ , Jeremy Reguette ¹ , Manel Vera Palou ¹
	'Kocaeli University, İzmit, Turkey	¹Csic-univ. Sevilla, Sevilla, Spain. ²Abengoa Research, Sevilla, Spain	¹ Universitat Jaume I, Castellón, Spain, ² Asociación de investigación de las Industrias Cerámicas, Castellón, Spain	¹ European Astronaut Centre (EAC). European Space Agency (ESA), Koln, Germany. ² Deutsches Zentrum für Luft- und Raumfahrt (DLR), Koln, Germany
	THE EFFECT OF CORROSION ON THE MICROSTRUCTURE OF THE AL-SCU MATRIX COMPOSITES REINFORCED WITH TIC PARTICLES	THE USE OF SYNERGISTIC EFFECT BETWEEN THE OPTICAL AND SEMICONDUCTOR PROPERTIES OF AGNPS/TIO2 PHOTONIC CRYSTALS FOR THE PHOTO-CATALYTIC ACTIVITY ENHANCEMENT	IMPLEMENTATION OF AN IN SITU TREATMENT IN THE SPS CYCLE FOR THE OPTIMISATION OF THE MECHANICAL PROPERTIES OF THE AZ91 MAGNE- SIUM ALLOY	ON ADDITIVE MANUFACTURING OF PEEK
15.20	<u>Burak Dikici</u> ¹ , Fevzi Bedir ² , Mehmet Gavgali ³	M.Sc. Joanna Ginter ¹ , M.Sc. Kaja Spilare-wicz- Stanek ¹ , Dr Aneta Kisielewska ¹ , Prof. Ireneusz Piwoński ¹	Ms Nathalie Allain ¹³ , M. Mathieu Mondet ¹²³ , M. Sébastier Lemonnier ² , Ms Elodie Barraud ² , M. Thierry Grosdidier ¹²³	Professor Brando Okolo ¹ . <u>Dipl Ing Uwe Popp</u> ¹ . MSc. Julian Scholz ¹
	'Ataturk University, Department of Metallurgical and Materials Engineering, Erzurum 25240, Turkey 'Gebze Technical University, Department of Mechanical Engineering, Rocaeli-Gebze 41400, Turkey ³ Ataturk University, Department of Mechanical Engineering, Erzurum 25240, Turkey	¹ University of Lodz, Faculty of Chemistry, Department of Materials Technology and Chemistry, Lodz, Poland	¹ University of Lorraine, Laboratoire D'etude Des Microstructures El De Mécanique Des Matériaux, UMR CNRS 7239, lle du Saulcy, 57045 Metz, France, French-German Research Institute of Saint-Louis, (ISL), 5 rue du Général Cassagnou, 68300-Saint-Louis, France, ² University of Lorraine, LABoratory of EXcel- lence Design of Alloy Metals for low-mAs Structures (Labex DAMAS), lle du Saulcy, 57000 - Metz, France	'Apium Additive Manufacturing Gmbh, Kartsruhe, Germany
	CHARACTERIZATION OF THE HIGH TEMPERATURE OXIDATION BEHAVIOR OF SIMO CAST IRON USED AS EXHAUST MANIFOLDS	PHOTOLUMINESCENCE PROPERTIES OF POROUS SILICON EMBEDDED WITH II-VI SEMICONDUCTORS	CHARACTERIZATION OF A TITANIUMNITRIDE REINFORCED FeCoMo ALLOY	3D PRINTED PEEK PROCESSED BY FUSED FILAMENT FABRICATION: PROPERTY AND PROCESS RELATION
	<u>Gülşah Aktaş Çelik</u> ¹ , Assist. Prof. Dr. Şaban Hakan Atapek ¹ , Assoc. Prof. Dr. Şeyda Polat ¹ , Prof. Dr. Gregory N. Haidemenopoulos ²	Dr. Osvaldo de Meto¹, MSc Claudia de Meto¹², Mr. Yoandry Gonzalez¹, Dr. Maria Sánchez¹, Dr. Guillermo Santana⁴, Dr. Jaime Santoyo-Salazar⁴, Dr. Vicente Torres-Costa³	<u>Dr. Christoph Turk'</u> , DipL-Ing. Ingrid Schemmel ¹ , Dr. Gert Kellezi ¹ , Prof. Dr Helmut Clemens ² , Dr. Harald Leitner ¹	Dr. Ugo Lafont ¹ , Derek Aranguren Van Egmond ¹ , Stefan Siarov ¹ , Dr. Christopher Semprimoschnig ¹
15.40	¹ Kacaeli University, Kocaeli, Turkey, ² University of Thessaly, Volos, Greece	Physics Faculty, University of Havana, 10400 La Habana, Cuba, ⁴ Institut Jean Lamour, UMR CNRS 7198, Université de Lorraine, Parc de Saurupt, CS 50840, 54011 Nancy Cedex, France, ³ Instituto de Investigación en Materiales, Universidad Nacional Autónoma de Mexico, Cd. Universitaria, A.P. 70-360, Coyoacán 04510, México D. F., México, ⁴ Physics Department, Centro de Investigación y Estudios Avanzados del Instituto Politécnico Nacional, CINVESTAV-IPN, A.P. 14-740, México D.F. 07360, México, ⁵ Applied Physics Department, Faculty of Sciences, Universidad Autónoma de Madrid, Cantoblanco 28049, Madrid, Spain	¹ Böhler Edelstahl Gmbh & Co KG, Kapfenberg, Austria; ² Montanuniversität Leoben, Department of Physical Metallurgy and Materials Testing, Leoben, Austria	'European Space Agency - ESTEC, Noordwijk, Nederland
	EFFECT OF EVA AGING ON SOLAR CELL RELIABILITY FOR PHOTOVOLTAIC APPLICATION	HIGH TRANSPARENT AND STABLE SILVER NANOW- IRES AS FLEXIBLE TRANSPARENT ELECTRODE USING PLASMA TECHNIQUE	SYNTHESIS OF W.C AND WC POWDERS VIA MECHANICAL ACTIVATION-ASSISTED AUTOCLAVE PROCESSING	CONDUCTIVE POLYETHERETHERKETONE NANOCOM- POSITE FILAMENTS FOR ADDITIVE MANUFACTURING
16.00	Dr. Kamel Agroui ¹ , Dr. George Collins ² , Dr. Gernot Oreski ³ , Dr. Oualid Arfi ⁴	Kim Dogeun¹, Lee Seunghun¹, Jung Sunghoon¹	Nihan Özkan Aytekin ^{1,2} , Duygu Ağaoğulları ¹ , M. Lütfi Öveçoğlu ¹	<u>Prof. Jose Covas</u> ¹² , Prof Maria Paiva ¹² , Patricia Lima ² , Jordana Goncalves ² , Dr. Ugo Lafont ³
	¹ Research Centre On Semiconductors, Algeirs, Algeria, ² New Jersey Institute of Technology (NJIT), New Jersey, USA, ³ Polymer Competence Centre Leoben (PCCL), Leoben, Austria, ⁴ Research Centre On Semiconductors, Algiers, ALGERIA	¹ Korea Institute of Materials Science	¹ Istanbul Technical University, Metallurgical and Materials Engineering Department, Particulate Materials Laboratories (PML), Istanbul, Turkey, ² Alasehir Adigüzel Vocational School, Istanbul, Turkey	¹ IPC/I3N University of Minho. Guimaraes, Portugal. ² PIEP, Guimaraes, Portugal. ¹ European Space Agency, Noordwijk, The Netherlands
		ATOMIC LAYER DEPOSITION OF COPPER OXIDE AND METALLIC COPPER THIN FILMS	PROPERTIES OF SUPERALLOY POWDERS FOR ADVANCED MANUFACTURING: COMPARISON OF THREE INERT GAS ATOMISATION PROCESSES	RECYCLABILITY OF ADDITIVE LAYER MANUFACTURED EPDM AND POM PARTS IN VIEW OF SPACE MANUFACTURING: A PRELIMINARY STUDY
16.20		MSc Claudia de Melo ¹² , Dr. Maud Jullien ¹ , Prof. Jean François Pierson ¹ , Prof. Frank Mücklich ² , Dr. David Horwat ¹	<u>Dr. Stefan Drawin</u> ł, Dr. Lucas Dembinski [‡] , Dr. Marc Thomas [‡] , Dr. Yoann Danlos [‡] , Olivier Godde [‡]	Prof. Francesca Nanni ¹ . Valeria Cherubini ¹ . Fabio Franceschetti ¹ . Marianna Rinaldi ¹
		¹ Institut Jean Lamour, UMR CNRS 7198. Université de Lorraine, Parc de Saurupt, CS 50840, Nancy, France, ² Department of Materials Science and Engineering, Saarland University, Saarbrücken, Germany	¹ Onera - The French Aerospace Lab. Chatillon, France, ² UTBM-IRTES-LERMPS, Belfort, France	'University of Rome Tor Vergata, Rome, Italy
		FABRICATION AND PROPERTIES OF ELECTRO- PLATED F8-Cu CONTINUOUS FILMS AND POROUS MICROSTRUCTURES DEPOSITED ONTO E-BEAM LITHOGRAPHED PATTERNS	POWDER ROUTE PROCESSING OF Nb SILICIDE BASED ALLOYS	3D PRINTED PCL SCAFFOLDS FOR BIOMEDICAL APPLICATIONS
16.40		<u>Evangelia Dislaki</u> ¹ , Federica Celegato ³ , Paola Tiberto ³ , Jordi Sort ^{1,2} , Eva Pellicer ¹	<u>Mr Edward Gallagher</u> ', Dr. Claire Utton ¹ , Prof Panos Tsakiropoulos ¹	DrEng. Nikolaos Michailidis ¹² . <u>Mr. Marios Pantazo-poulos</u> ¹ , DrEng. Alexander Tsouknidas ²
		¹ Universitat Autònoma de Barcelona, Physics Department, E-08193 Bellaterra, Spain, ² Institució Catalana de Recerca i Estudis Avançats (ICREA), ³ INRIM, I-10135 Torino, Italy	¹ University Of Sheffield, Sheffield, United Kingdom	Physical metallurgy Laboratory, Dept. of Mechanical Engineering, School of Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece, PLIN-Nanotech- nology SA, Spectra Business Center, Thermi-Thessa- loniki, Greece



Symposium	C8	C9	C10	C11
Room	Library Hall/M2	Conference Room 3/M1	F 319/M1	M0YSA Hall/M2
Session Title	Aluminium Alloys - II	Sintering and joining processes	Microstructure formation and mechanically driven transformation	Materials and Processes
Chairperson	Dispinar Derya, Andrew R. Kennedy	Dr. Dionysios Manessis	A. Bachmaier, A. Kilmametov	Alain Claverie
	CHANGE IN MELT QUALITY OF GRAIN REFINED A356 BY DURATION	PCB EMBEDDING AND SINTERING MANUFACTURING PROCESSES FOR THE DEVELOPMENT OF ADVANCED POWER MODULES USED IN ELECTRIC VEHICLE APPLICATIONS	HIGHLIGHT PHASE TRANSITIONS IN COPPER-BASED ALLOYS UNDER HIGH PRESSURE TORSION	DIFFERENTIAL HALL CHARACTERISATION OF SHALLOW STRAINED SIGE LAYERS
15.00	Ozen Gursoy', Dr Eray Erzi¹. Assoc. Prof. Dr. Derya Dispinar¹	Dr. Dionysios Manessis ^{1,2} , Mr Lars Boettcher ² , Dr. Andreas Ostmann ² , Mr. Johannes Blum ³ , Mr. Mike Morianz ⁴ , Mr. Jo- hannes Stahr ⁴ , Prof. Johann Nicolics ⁵ , Mr. Michael Unger ⁵	Prof. Boris Straumal ^{1,23,6} , Dr. Olga Kogtenkova ² , Dr. Askar Kilmametov ³ , Dr. Andrey Mazilkin ^{2,3} , Dr. Anna Korneva ³ , Prof Pawel Zięba ⁵ , Dr Petr Straumal ^{4,6} , Dr. Brigitte Baretzky ³	Richard Daubriac ¹ , Emmanuel Scheid ¹ , Filadelfo Cristiano ¹ , Sylvain Joblot ² , David Barge ²
	'Istanbul University, Istanbul, Turkey	¹ Technical Universitiy Berlin/Fraunhofer IZM, Berlin, Germany: ¹ Fraunhofer IZM, Berlin, Germany: ³ ILFA Feinstleitertechnik GmbH, Hannover, Germany: ⁴ AT&S Austria Technologie & Systemtechnik Aktiengesellschaft, Leoben, Austria: ³ Vienna University of Technology (VUT), Vienna, Austria	'NITU MISiS, Chernogolovka, Russian Federation, *Institute of Solid State Physics, Russian Academy of Sciences, Chernogolovka, Russia, *Karlsruher Institut für Technologie (KIT), Institut für Nanotechnologie, Eggenstein-Leopoldshafen, Germany, *Laboratory of Hybrid Nanomaterials, National University of Science and Technology «MISIS», Moscow, Russia, *Institute of Metallurgy and Materials Science, Polish Academy of Sciences, Craow, Poland *A.A. Baikov Institute of Metallurgy and Materials Science, RAS, Moscow, Russia	¹ LAAS-CNRS, Toulouse, France, ² STMicroelectronics, Crolles, France
	EFFECT OF B ADDITION ON THE MICROSTRUCTURES AND CORROSION BEHAVIOR OF A356 ALUMINUM ALLOYS	THE MICROSTRUCTURE-ENHANCEMENT OF NaxCoyOz FUNCTIONAL CERAMIC FILMS	HIGHLIGHT ON KINETICS OF GRAIN REFINEMENT BY SEVERE PLASTIC DEFORMATION	STRAIN AND CRYSTAL QUALITY OF HIGH Ge CON- TENT 5iGe-On-INSULATOR FILMS FABRICATED BY THE CONDENSATION TECHNIQUE
15.20	Ismail Öztürk', Dr. Gökçe Hapçı Ağaoğlu', Associate Prof. Derya Dışpınar ¹ , Prof. Dr. Gökhan Orhan ¹	<u>Dr Ewa Jakubczyk</u> ¹ , Dr Rebecca Townsend ¹ , Dr Lynn Boniface ¹ , Professor Robert Dorey ¹	Dr Andrey Belyakov ¹ , Dr. Marina Tikhonova ¹ , Mr. Pavel Dolzhenko ¹ , Dr. Taku Sakai ² , Dr. Rustam Kaibyshev ¹	Fabien Rozé ^{1,2,3} , Olivier Gourhant ¹ , François Bertin ² , Elisabeth Blanquet ³ , François Pierre ² , Denis Rouchon ² , Véronique Guyader ¹ , Laurent Fauquier ^{1,2,4} , Clément Pribat ¹ , Yves Campidelli ¹
	'Istanbul University, Istanbul, Turkey	'University Of Surrey, Guildford, United Kingdom	Belgorod State University, Belgorod, Russian Federa- tion, ² UEC Tokyo (The University of Electro-Communica- tions), Tokyo, Japan	'STMicroelectronics, Crolles, France, 'CEA-LETI, Greno- ble, France, 'Univ. Grenoble Alpes, CNRS, Grenoble INP, SIMaP, Grenoble, France, 'CNRS, LTM, Univ. Grenoble Alpes, Grenoble, France
	EVALUATION OF Fe-INTERMETALLIC FORMATION IN AI ALLOYS	ACHIEVING TITANIUM ARCHITECTURED MICRO- STRUCTURES BY COUPLING ELECTRON BEAM MELTING AND SPARK PLASMA SINTERING	HIGHLIGHT ACCELERATED GRAIN FRAGMENTATION BY ME- CHANICAL TWINNING IN MDFeD Cu-AL ALLOYS AND BREAK DOWN OF HALL-PETCH RELATION	EFFECT OF POST-METALLIZATION ANNEALING ON THE INTERFACIAL PROPERTIES OF METAL/AL ₂ O ₃ /Ge GATE STACKS
15.40	Ertan Musdal ¹ , Ozen Gursoy, <u>Eray Erzi</u> , Derya Dispinar ¹	Prof. Damien Fabregue¹, Dr. Guilhem Martin², Florian Mercier¹, Prof. Remy Dendievel², Prof. Jean-Jacques Blandin², Dr. Lorène Héraud²	Dr. Hiromi Miura¹, Mr. Yu Iwama¹, Dr. Masakazu Kobayashi¹	Student Stamatios Alafakis¹, <u>Dr. Vassilios Ioan-</u> <u>nou-Sougleridis</u> ², Prof. Dimitrios Skarlatos¹
	'Istanbul University, Istanbul, Turkey	'Mateis Insa Lyon, Villeurbanne, France, 'SIMAP, Uni- versité Grenoble-Alpes, Saint Martin d'Hères, France	'Toyohashi University of Technology, Toyohashi, Japan	"Department Of Physics / University Of Patras, Patras, Greece. Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Aghia Paraskevi, Athens, Greece
	UNCERTAINTY IN USE OF DENSITY INDEX AS MELT QUALITY ASSESSMENT IN ALUMINIUM CASTINGS	MANUFACTURING AND THERMOHYDRAULIC CHARACTERIZATION OF SINTERED CAPILLARY STRUCTURE	HIGHLIGHT EFFECT OF PLASTIC DEFORMATION ON THE MICROSTRUCTURE, THERMAL RESPONSE AND MECHANICAL BEHAVIOR OF METALLIC PHASE CHANGE MATERIALS BASED ON THE AL-Sn SYSTEM	SUBSTRATE DAMAGE IN PHOSPHOROUS-IMPLANT- ED (100) GERMANIUM AFTER MS FLASH LAMP ANNEALING: ORIGINS AND SUPPRESSION
16.00	Eray Erzi ¹ , Ozen Gursoy ¹ , <u>Derya Dispinar</u> ¹	Rémi Giraudon¹, Dr Stéphane Lips¹, Dr Laurent Gremillard², Dr Damien Fabregue², Dr Eric Maire², Dr Valérie Sartre¹	Prof. Elisabetta Gariboldi	Prof. Dimitrios Skarlatos¹, Prof. Nikolaos Vouroutzis², Dr. Vassilios Ioannou-Sougleridis², MSc Maria-Chris- tina Skoulikidou², Dr. Dimitrios Velessiotis², Dr. Spyros Stathopoulos⁴, Prof. Emeritus John Stoemenos²
	'Istanbul University, Istanbul, Turkey	¹ CETHIL. Villeurbanne, France, ² MATEIS, Villeurbanne, France	¹ Politecnico di Milano, Dipartimento di Meccanica, Milano, Italy	"Department Of Physics / University Of Patras, Patras, Greece, ² Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece, ³ Institute of Nanoscience and Nanotechnology,NCSR *Demokritos*, Aghia Paraskevi, Athens, Greece, ⁴ Department of Phys- ics, National Technical University of Athens, Zografou, Athens, Greece
	FLUIDITY CHARACTERIZATION OF ALUMINUM ALLOY FOR ENGINE BLOCKS	PREDICTION OF DEFORMATION AND WELD STRENGTH OF COMPACT DIFFUSION-BONDING HEAT EXCHANGERS WITH FINITE-ELEMENT SIMULATION	EFFECTS OF THERMOMECHANICAL TREATMENT ON HARMONIC STRUCTURE DESIGNED PURE Cu	UNDERSTANDING THE EFFECTS OF AIN AND SIN LAYERS ON THE NUCLEATION AND GROWTH OF GaN NANOWIRES BY PLASMA ASSISTED MOLECULAR BEAM EPITAXY
16.20	Eray Erzi ¹ , <u>Caglar Yuksel</u> ² , Ozen Gursoy ¹ , Derya Dispinar ¹	PhD Student Matthieu Maunay ¹ , Material science PhD Briottet Laurent ¹ , Material science PhD Moro Isabelle ¹ , Material science PhD Rigal Emmanuel ¹	Shuichi Morinaka', 'Yamato Suto', Mie ota ¹ , Kei Ameyama ¹	Mr Savvas Eftychis ^{1,2} , Dr. Jann Kruse ¹ , Dr. Adam Adikimenakis ^{1,2} , Mrs Katerina Tsagkaraki ² , Mrs Maria Androulidaki ² , Dr. Triantafillia Koukoula ³ , Prof. Thomas Kehagias ³ , Prof. Filomila Komninou ³ , Prof. Alexandros Georgakilas ^{1,2}
	'Istanbul University, Istanbul, Turkey ² Yildiz Technical University, Turkey	'Univ Grenoble Alpes, CEA, LITEN, DTBH, Grenoble, France	¹ Ritsumeikan University, Kusatsu City, Japan	'Physics Department, University Of Crete, Heraklion / Crete, Greece: *Microelectronics Research Group, IESL/ FORTH, Heraklion / Crete, Greece, *Physics Department, Aristotle University of Thessalloniki, Thessaloniki, Greece
	CHARACTERIZATION OF THREE-PHASE EUTECTIC MICROSTRUCTURE IN Al-Cu-Ag System		MODELLING THE THERMO-MECHANICAL PROCESSING OF MICRO-ALLOYED STEEL	
16.40	M.S Candidate Mehmet Emre Cetinkaya ¹ . Res. Assist. Prof. Melis Serefoglu Kaya ¹		M.sc. Heinrich Buken ¹ , Prof. Dr. Ernst Kozeschnik ^{1,2}	
10.40	'Koc University, Istanbul, Turkey		¹ Technical University Vienna, Vienna, Austria, ² MatCalc Engineering GmbH, Vienna, Austria	

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Symposium	D1	D2	D5	D8
Room	Artist Cafe/M1	Museum Hall /M2	I-15/M1	I -16/M1
Session Title	Tomography and Diffraction Tomography	Biomaterials, polymers and low-ordered systems	Strong Coupling of Thermo-chemical and Thermo-mechanical States	Ab initio based thermodynamics
Chairperson	Thilo Morgeneyer, Robert Atwood	Saso Sturm	Ernst Kozeschnik	D. Nguyen Manh
	HIGHLIGHT INTERPLAY BETWEEN BANDING AND THE WORK HARDENING BEHAVIOUR IN A DUAL PHASE STEEL WITH IMPROVED FORMABILITY	HIGHLIGHT ATOMIC SCALE COMPOSITIONAL MAPPING REVEALS Mg-RICH AMORPHOUS CALCIUM PHOSPHATE IN HUMAN DENTAL ENAMEL	KEYNOTE/INVITED THE PRIORITY PROGRAM "STRONG COUPLING OF THERMO-CHEMICAL AND THERMO-MECHANICAL STATES IN APPLIED MATERIALS"	KEYNOTE/INVITED FINITE TEMPERATURE EFFECTS IN AB INITIO SIMULATIONS OF THERMODYNAMIC AND ELASTIC PROPERTIES OF ALLOYS
15.00	Dr. Bernard L. Ennis ¹² , Dr. Enrique Jimenez-Melero ² , Dr. Kees Bos ¹ , Dr. Maxim P. Aarnts ¹ , Prof. Peter D. Lee ²	<u>Dr. Alex La Fontaine</u> ¹² , Dr. Alexander Zavgorodniy ¹⁴ , Dr. Howgwei Liu ¹ , Prof. Michael Swain ¹³ , Prof. Julie Cairney ¹ , ²		
	¹ Tata Steel, Umuiden, Netherlands, ² University of Manchester, Manchester, United Kingdom	Australian Centre for Microscopy and Microanalysis, The University of Sydney, Sydney, Australia: School of Aerospace, Mechanical and Mechatronic Engineering, The University of Sydney, Sydney, Australia: Faculty of Dentistry, The University of Sydney, Sydney, Australia: 'Institute of dental research, Westmead centre for Oral Health, Sydney, Australia: Faculty of dentistry, Kuwait University, Kuwait	Prof. Ingo Steinbach	Prof. Dr. Igor A. Abrikosov ¹²
	CHANGE OF MISORIENTATION OF INDIVIDUAL CRYS- TALLOGRAPHIC PLANES IN FATIGUE OF ALLOYS BY DIFFRACTION CONTRAST TOMOGRAPHY USING ULTRABRIGHT SYNCHROTRON RADIATION	3D PRINTED BONE-MIMETIC NANOCOMPOSITES: STRUCTURAL CHARACTERISATION BY ADVANCED TRANSMISSION ELECTRON MICROSCOPY TECH- NIQUES		
15.20	Prof. Yoshikazu Nakai¹, Prof. Daiki Shiozawa¹, Mr. Naoya Asakawa¹, Mr. Kenji Nonaka¹, Prof. Shoichi Kikuchi¹	<u>Dr. Antiope Lotsari</u> ¹² , Mr. Anand-Kumar Ra- jasekharan', Prof. Mats Halvarsson ² , Prof. Martin Andersson ¹	¹Ruhr-university Bochum, Bochum, Germany	¹ Linköping University, Linkoping, Sweden, ² National University of Science and Technology MISIS', Mascow, Russia
	¹ Kobe University, Kobe, Japan	Department of Chemistry and Chemical Engineering, Chalmers University Of Technology, Gothenburg, Sweden, "Department of Physics, Chalmers University of Technology, Gothenburg, Sweden		
	STUDY OF NON-BASAL SLIP IN Mg-Y ALLOY BY IN SITU 3D-XRD	IN-DEPTH METHODOLOGY ON THE STRUCTURAL CHARACTERIZATION OF EXILVA MICROFIBRILLATED CELLULOSE	CROSS-COUPLING BETWEEN DIFFUSION AND MECHANICAL RELAXATION: EFFECTS ON THE PRECIPITATION	PECULIARITIES OF STABILITY AND ELASTICITY IN THE Mon-Tan System
	<u>Dr. Leyun Wang</u> ¹² , Mr. Zhonghe Huang ¹ , Dr. Sangbong Yr ² , Dr. Jun-Sang Park ³ , Dr. Peter Kenesei ² , Dr. Xiaoqin Zeng ¹ , Dr. Erica Litleodden ²	Dr. Anastasia Riazanova ²⁷ , Dr. Per A. Larsson ¹ , Dr. Ramiro Rojas ¹² , Dr. Martha Herrera Rodriguez ¹ , Prof. Lars Wägberg ¹² , Dr. Hans Henrik Øvreba ³ , Prof. Lars Berglund ^{1,2}	Dr. Reza Darvishi Kamachali ¹ , Christian Schwarze ¹	Nikola Koutná ¹² , <u>Dr. David Holee</u> ³ , Dr. Martin Friák ^{4,5,6} Prof. Paul Mayrhofer ¹ , Prof. Mojmír Šob ^{5,6,2}
15.40	¹ Shanghai Liao Tong University, Shanghai, China, [‡] Helm- holtz-Zentrum Geesthacht, Geesthacht, Germany, ³ Argonne National Laboratory, Lernont, USA	¹ KTH Royal Institute of Technology, Department of Fibre and Polymer Technology, Stockholm, Sweden, ² Wallenberg Wood Science Center (WWSC), Stockholm, Sweden, ² Borregaard, Extiva, R&D Department, Sarpsborg, Norway	Interdisciplinary Centre for Advanced Materials Simulation (ICAMS), Ruhr-university Bochum, Bochum, Germany	Montanuniversität LeobenInstitute of Materials Science and Technology, TU Wien, Vienna, Austria, Fraculty of Science, Masaryk University, Brno, Czech Republic, *Department of Physical Metallurgy and Materials Teeting, Montanuniversität Leoben, Leoben, Austria, *Institute of Physics of Materials, Academy of Sciences of the Czech Republic, *Central European Institute of Technology, CEITEC MU, Masaryk University, Brno, Czech Republic, *Central European Institute of Technology, CEITEC BUT, Brno University of Technology, Brno, Czech Republic
	APPLICATION OF TOMOGRAPHY TECHNIQUES TO STUDY STRESS CORROSION CRACKING OF Zr ALLOYS IN 3-DIMENSIONS	APPLICATION OF SCANNING KELVIN PROBE MI- CROSCOPY (SKPM) TOGETHER WITH INTERMODULA- TION FORCE MICROSCOPY (IM-AFM) FOR PROBING BOEHMITE (ALOOH) NANOPARTICLES IN POLYMER NANOCOMPOSITES	ICME STUDY OF PARTICLE DAMAGE BEHAVIOUR IN Fe-TIB ₂ METAL MATRIX COMPOSITES	ADVANCED AB INITIO METHODS FOR ELASTIC PROP- ERTIES OF ALLOYS. TEMPERATURE DEPENDENCE AND TREATMENT OF DISORDER
16.00	<u>Dr Alistair Garner</u> ', Dr Timothy Burnett', Mr Conor Gillen ¹ , Dr Philipp Frankel ¹	<u>Media Ghasem Zadeh Khorasani</u> '. Dr. Dorothee Silbernagt ¹ , Prof. Heinz Sturm ¹²	M.Sc. Ding Wang ¹ , Dr. Pratheek Shanthraj ¹² , DrIng. Hauke Springer ¹ , Prof. DrIng. habil. Dierk Raabe ¹	Thomas Dengg ¹² , Mohammad Dehghani ^{1,2} , Dr. Rostam Golesorkhtabar ² , Dr. Lorenz Romaner ¹ , Prof. Dr. An- drei Ruban ¹ , Prof. Peter Puschnig ² , Prof. Dr. Claudia Draxl ³ , <u>Dr. Jürgen Spitaler</u> ¹
	1University of Manchester, Manchester, United Kingdom	'Federal Institute for Materials Research and Testing, Berlin, Germany, 'Technical University of Berlin, Berlin, Germany	Max-Planck-Institut für Eisenforschung GmbH Düsseldorf, Germany, AICES, RWTH Aachen University, Aachen, Germany	Materials Center Loben Forschung GmbH. Roseggerstr. 12, 8700 Leoben, Austria. University of Graz, Institute of Physics, NAWI Graz, Universitäisplatz 5, 8010 Graz, Austria. Physics Department and IRIS Adlershof, Humboldt-Universitäitä zu Berlin, Zum Großen Windkanal 6 12489 Berlin, Germany, 'Department of Materials Science and Engineering, KTH Royal Institute of Technology, SE-100 44 Stockholm, Sweden
	THERMO-MECHANICAL TREATMENTS OF TIAL ALLOYS STUDIED IN SITU BY HIGH-ENERGY X-RAY DIFFRACTION	NOVEL TRANSROTATIONAL SOLID STATE ORDER DISCOVERED BY TEM IN CRYSTALLIZING AMOR- PHOUS FILMS AND NEW MODEL OF AMORPHOUS STATE	COMBINED EXPERIMENTAL-AB INITIO STUDY OF MECHANO-CHEMICAL COUPLING DURING PRECIPI- TATION IN AL-BASED ALLOY	COMBINING GAUSSIAN PROCESSES AND NESTED SAMPLING TO MODEL HYDROGEN DISSOLUTION PROPERTIES IN BCC-Fe
16.20	Andreas Stark', Marcus Rackel', Michael Oehring', Lars Lottermoser', Norbert Schell ¹ , Florian Pyczak ¹	Prof. Vladimir Kolosov	Dr. Sergiy Divinski¹, Vladislav Kulitcki¹², Bengū Tas Kavakbasi¹, Ankit Gupta³, Yulia Buranova¹, Dr. Tilmann Hickel³, Prof Jörg Neugebauer³, Prof Gerhard Wilde¹	<u>Dr. Erlend Davidson</u> ¹ , Dr. Tom Daff ² , Prof. Gabor Csanyi ² , Prof. Mike Finnis ¹
	¹ Helmholtz-Zentrum Geesthacht, Geesthacht, Germany	¹ Ural Federal University, Ekaterinburg, Russian Federation	'Institute of Materials Physics, University of Münster, Germany, Münster, Germany, 'Belgorad State University, Belgorad, Russia, 'Max-Planck-Institut für Eisenforschung, Düsseldorf, Germany	[†] Imperial College London, London, United Kingdom, [‡] University of Cambridge, Cambridge, UK
	MagDS FURNACE: AN IN SITU TEMPERATURE GRADIENT STAGE FOR 4D X-RAY IMAGING OF DIRECTIONAL SOLIDIFICATION		MULTISCALE MODELLING OF THE EFFECT OF SMALL MOLECULES ON MECHANICAL PROPERTIES OF SHAPE MEMORY POLYMERS: THEORY VERSUS EXPERIMENT	ELASTIC PROPERTIES OF PALLADIUM-HYDRIDE SOLIDS FROM FIRST PRINCIPLES
16.40	Dr. Biao Cai ¹² , Prof. Peter Lee ¹² , Dr. Andrew Kao ³ , Prof. Andre Phillion ⁴ , Dr. Robert Atwood ⁵ , Dr. Elodie Boller ⁴ , Prof. Koulis Pericleous ³		Prof. Dr. Fathollah Varnik', M.Sc. Elias Mahmoud- inezhad', DiplIng. Axel Marquardt', PD Dr. Klaus Neuking', M.Sc. Ehsan Ghobadi', Prof. Dr. Holger Steeb ³ , Prof. Dr. Günther Eggeler ²	Beatrix Elsner ¹ , <u>Dr. Gregor Feldbauer</u> ¹ , Prof. Dr. Stefan Müller ¹
10.4U	¹ School of materials, University Of Manchester, Oxford, United Kingdom, ² Research Complex at Harwell, Harwell, Oxfordshire, UK, ³ Centre for Numerical Mod- elling and Process Analysis, University of Greenwich, London, UK, ⁴ Department of Materials Science and Engineering, McMaster University, Hamilton, Canada, ³ Diamond Light Source Ltd., Harwell Science and Innovation Campus, Didcot, UK, ⁴ ESRF—The European Synchrotron, Grenoble, France		¹ (CAMS, Ruhr-University Bachum, Bochum, Germany, ² IFW, Ruhr-University Bachum, Bachum, Germany, ³ University of Stuttgart, Stuttgart, Germany	¹ Institute of Advanced Ceramics, Hamburg University of Technology, Hamburg, Germany



Symposium	D10	E6	F3	F6
Room	CR II Hall/M2	Maurice Saltiel Hall II/M2	3-21/M1	Conference Room 2/M1
Session Title	Fluids II	Hybrid materials and Fibre reinforced plastics II	Nanobiomaterials and nanotechnology for implants, devices and theranostics III	Structural properties of natural materials
Chairperson	Andreas Boudouvis, Theodoros Karakasidis	René Alderliesten	Daniel Ruiz Molina	Sylvain Meille
	HIGHLIGHT UNCERTAINTY AND REPRODUCIBILITY OF WATER FLOW-RATES IN CNTs	DEVELOPMENT OF POLYMER/METAL MULTILAYER COMPOSITES BY "SPARK PLASMA SINTERING"	DOPAMINE-BASED COORDINATION POLYMER NANOPARTICLES FOR BIOMEDICAL APPLICATIONS	WATER-MEDIATED NANOCOMPOSITE INTERACTIONS REVEAL FUNCTIONAL DEFORMATION-CHARACTER- ISTICS OF HUMAN TOOTH DENTIN
	Ermioni Papadopoulou¹, Dr. Eduardo R. Cruz-Chú¹, Dr. Aleksandar Popadic³, Prof. Jens H. Walther¹², Prof. Matej Praprotnik²⁴, Prof. Petros Koumoutsakos¹	Jean-Charles Sébileau ¹² , Mathias Freslier ¹ , Dr. Sébastien Lemonnier ¹ , Dr. Elodie Barraud ¹ , Dr. Adele Carradò ² , Dr. Marie-France Vallat ² , Dr. Michel Nardin ²	Javier Garcia-Pardo¹, Fabiana Nador¹, Julia Lorenzo², Fernando Novio¹, Daniel Ruiz-Molina¹	Dr. Jean-Baptiste Forien ² , Dr. Ivo Zizak ⁵ , Prof. Claudia Fleck ⁶ , Dr. Ansgar Petersen ¹ , Prof. Peter Fratzl ³ , Prof. Emil Zlotoyabko ⁴ , <u>Dr. Paul Zaslansky</u> ¹
15.00	Computational Science and Engineering Laboratory, ETH Zürich, 0501 Zürich, Switzerland: Department of Mechanical Engineering, Technical University of Denmark, Kongens, Denmark, Department of Molecular Modeling, National Institute of Chemistry, Ljubljana, Slovenia, 'Department of Physics, Faculty of Mathematics and Physics, University of Ljubljana, Ljubljana, Slovenia	French-German Research Institute of Saint-Iouis (ISL), Saint-Louis, France, finsitut de Science des Materiaux de Mulhouse UMR 7361 CMRS UTAL Université de Haute-Al- sace, Mulhouse, France, finsitut de Physique et Chimie des Matériaux de Strasbourg UMR 7504 CNRS UNISTRA, Strasbourg, France	ICN2-Institut Català de Nanociència i Nanotecno- logia, Campus Universitat Autònoma de Barcelona, Cerdanyola Del Vallès, Spain, 'Institut de Biotecno- logia i Biomedicina and Dept. Bioquímica i Biologia Molecular, Universitat Autònoma de Barcelona, Cerdanyola del Vallès, Spain	Charité - Universitätsmedizin Berlin, Berlin, Germany, *Lawrence Livermore National Laboratory - Materials Science Division, 7000 East Avenue, Livermore, USA, *Department of Biomaterials Max Planck Institute of Colloids and Interfaces, Golm, *Potsdam, Germany, *Materials Engineering Department Technische Universität Berlin, Berlin, Germany, *Elemholtz-Zentrum Berlin für Materialien und Energie – Speicherring BESSY II, Berlin, Germany, *Department of Materials Science and Engineering, Technion Israel Institute of Technology, Haifa, Israel
	COMPUTATIONAL STUDY OF THE AGGREGATION OF SPHERICAL NANOPARTICLES IN THE FLOW OF BLOOD UNDER THE INFLUENCE OF MAGNETIC FIELD	FORMABILITY OF LIGHTWEIGHT STEEL-POLYMER SANDWICH SHEETS FOR TRANSPORT APPLICATIONS	ASYMMETRICALLY FUNCTIONALIZED MESOPOROUS SILICA NANOPARTICLES FOR DUAL TARGETING TO TUMORAL CELL AND MITOCHONDRIA	SPIDER SILK AND ITS STATISTICAL ANALYSIS
15.20	Evangelos Karvelas ¹ , <u>Dr. Theodoros Karakasidis¹,</u> Dr Ioannis Sarris ²	<u>Dr. Josef Domitner</u> ', Florian Hönsch ¹ , Markus Weber ² , Dr. Domenico Foglia ² , Prof. Dr. Christof Sommitsch ¹	<u>Dr. Alejandro Baeza 12,</u> Mrs. Victoria López ¹ , Mrs. Verónica Rodríguez ¹ , Mrs. María Rocio Villegas ¹² , Dr. Gonzalo Villaverde ^{1,2} , Dr. Daniel Lozano ¹ , Prof. María Vallet-Regi ¹ , ²	Phd Student Gabriele Greco ¹ . Prof. Nicola Pugno ^{12,3}
	'University Of Thessaly, Dept. of Civil Engineering , Pedion Areos, Volos, Greece, Technological Institute of Athens, Dept. of Energy Technology , Athens, Greece	Graz University of Technology: Institute of Materials Science, Joining and Forming: Research Group Tools & Forming, Graz, Austria, ² 4a manufacturing GmbH, Traboch, Austria	¹ Universidad Complutense De Madrid, Madrid, Spain, ² Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Madrid, Spain	'Laboratory of Bio-Inspired and Graphene Nano- mechanics. Department of Civil. Environmental and Mechanical Engineering, University of Trento, Trento, Italy, ² School of Engineering and Materials Science, Queen Mary University of London, Mile End Road, EI 4NS London, UK, ¹ Italian Space Agency, Via del Politecnico snc, 00133 Rome, Italy
	MULTIPHASE FLOWS IN CONFINEMENT WITH COMPLEX GEOMETRIES	CHEMICAL MODIFICATION OF FIBER-MATRIX INTERFACES FOR ENHANCING THE STRENGTH AND DURABILITY OF LIGHTWISEIGHT MATERIALSPART I: ADHESION PROMOTING COATINGS	COMPOSITE SILANIZED-POROUS SILICON-CRYS- TALLINE SILICON MICROCANTILEVERS AS BIMODAL MECHANICAL-OPTOPLASMONIC BIOSENSING INTERFACES	DEFORMATION MECHANISMS DURING SPLITTING AND FRACTURE OF BAMBOO
15.40	Dr Benjamin Aymard¹, Mr Urbain Vaes¹, Dr Marc Pradas², Professor Serafim Kalliadasis¹	Dr. Mara Florea ¹ , Zalikha Murni Abdul Hamid ^{2,3} , Dr. Sascha Fliegener ² , PD Dr. Jörg Hohe ² , Prof. Dr. Jürgen Rühe ¹	Chloé Rodriguez¹, Dr Vicente Torres Costa¹, Dra Virginia Cebrían², Dra Cristina Gómez Abad², Dr Oscar Ahumada², Dr Miguel Manso¹	Mr Martin Legrand ¹ , Mr Heyu Wang ¹ , <u>Dr Eral Bele¹</u>
	¹Imperial College London, London, United Kingdom, ²The Open University, Milton Keynes, United Kingdom	Department of Microsystems Engineering – IMTEK, University of Freiburg, Freiburg, Germany, ² Fraunhofer Institute for Mechanics of Materials IWM, Freiburg, Germany, ² Karlsruhe Institute of Technology, Karl- sruhe, Germany	¹Universidad Autónoma Of Madrid, Madrid, Spain, ²Mecwins, Madrid, Spain	¹ University College London, Department Of Mechanical Engineering, London, United Kingdom
	LARGE SCALE DISSIPATIVE PARTICLE DYNAMICS SIMULATIONS OF BLOOD FLOW	CHEMICAL MODIFICATION OF FIBRE-MATRIX INTERFACES FOR ENHANCING THE STRENGTH AND DURABILITY OF LIGHTWEIGHT MATERIALSPART II: MECHANICAL CHARACTERIZATION	HYBRID PLASMONIC-POLYMER MATERIALS FOR BIOIMAGING	STAG BEETLE ELYTRA EXHIBITS NON SYMMETRIC BENDING PROPERTIES USING GRADED MULTI- LAYERS
16.00	Ms. Athena Economides ¹ , Dr. Sergey Litvinov ¹ , Mr. Dmitry Alexeev ¹ , Ms. Lina Kulakova ¹ , Mr. Lucas Amoudruz ¹ , Dr. Panagiotis Hadjidoukas ¹ , Prof. Petros Koumoutsakos ¹	Zalikha Murni Abdul Hamid ¹³ , Dr. Sascha Fliegener ¹ , Dr. Mara Florea ² , Prof. Dr. Jürgen Rühe ² , PD Dr. Jörg Hohe ¹	Dr. Dorleta Jimenez De Aberasturi ^{1,2} , Malte Strozyk ^{1,3} , Prof. Lus M. Liz Marzán ^{1,2,4}	<u>Dr. Lakshminath Kundanati</u> ¹, Stefano Signetti¹, Michele Menegon², Nicola M. Pugno ^{13,4}
	¹ Computational Science and Engineering Laboratory, ETH Zürich, Zürich, Switzerland	¹ Fraunhofer Institute for Mechanics of Materials IWM, Freiburg. Germany. ² Department of Microsystems Engineering – IMTEK, University of Freiburg, Freiburg. Germany. ⁴ Karlsruhe Institute Of Technology, Karlsruhe, Germany	CiCbiomaGUNE, San Sebastian-Donostia, 20014, Spain, 'Biomedical Research Networking Center in Bioengineering Biomaterials and Nanomedicine, Ciber-BBN, San Sebastian-Donostia, 20014, Spain, 'Department of Chemistry, University of Liverpool, Liv- erpool L69 72D, United Kingdom, 'Nerbasque, Basque Foundation for Science, Bilbao, 48013, Spain	'Laboratory of Bio-inspired and Graphene Nanomechanics, Department of Civil, Environmental and Mechanical Engineer- ing, University of Trento, via Mesiano 77, 1-8132, Trento, Italy, 'MUSE Science Museum, corso del Lavoro e della Scienza 3, 1-8122, Trento, Italy, School of Engineering and Materials Science, Queen Mary University of London, Mile End Road, E1 SNS, London, United Kingdom, 'Italian Space Agency, Via del Politecnico snc, 1-00133, Rome, Italy
	A NOVEL METHOD FOR THE MOLECULAR DYNAMICS SIMULATION OF POLYMERIZATION WITH EMISSION OF A SIDE-PRODUCT	EXPERIMENTAL DETERMINATION OF THERMAL RESIDUAL STRESSES IN CFRP-STEEL HYBRID MATERIALS	SURFACE ENHANCED RAMAN SCATTERING FROM GOLD CROWNED HEXAGONAL CLOSE PACKED SI SUBMICROMETER PILLARS	UNRAVELING THE RAPID SELF-ASSEMBLY OF CELLULOSIC FIBERS FROM MISTLETOE VISCIN
16.20	Jakub Krajniak ¹ , Sudharsan Pandiyan ² , Zidan Zhang ² , Eric Nies ² , Giovanni Samaey ¹	M.Eng. Stefan Schmidt ¹ , Prof. DrIng. Joachim Hausmann ¹	MSc Paola Pellacani ^{1,2} , PhD Carlo Morasso ² , PhD Lucia Fornasari ² , PhD Franco Marabelli ³ , Phd Miguel Manso Silvan ¹	Nils Horbelt ¹ , Dr. Michaela Eder ¹ , Prof. Dr. Peter Fratzl ¹ , Dr. Matthew J. Harrington ¹
	Department of Computer Science, KU Leuven, Leuven, Belgium, Department of Chemistry, KU Leuven, Leuven, Belgium	¹ Institute for Composite Materials, Kaiserslautern, Germany	¹ Universidad Autónoma De Madrid, Madrid, Spain, ² Fondazione Don Carlo Gnocchi, Milan, Italy, ³ Universita Degli Studi Di Pavia, Pavia, Italy	¹ Max Planck Institute Of Colloids And Interfaces, Potsdam, Germany
	MULTISCALE ANALYSIS OF REACTIVE TRANSPORT PROCESSES: A TOOL TO MONITOR THE MICRO- STRUCTURE AND THE PROPERTIES OF CHEMICAL VAPOR DEPOSITED FILMS	ELECTRICALLY CONDUCTIVE AND DAMAGE TOLER- ANT FIBRE-HYBRID-COMPOSITE DEVELOPED AS SKIN MATERIAL IN AERONAUTICS	RENATURATED COLLAGEN GELS IN PHYSIOLOGICAL SOLUTION CONDITIONS: A QUANTITATIVE DESCRIPTION OF THEIR BIOMECHANICAL PROPERTIES	
16.40	Dr. loannis Aviziotis¹², Dr. Thomas Duguet², Dr. Constantin Vahlas², <u>Prof. Andreas G. Boudouvis</u> ¹	Prof. Joachim Hausmann¹, Benedikt Hannemann¹, Dr. Sebastian Schmeer¹, Prof. Ulf P. Breuer¹	Assoc. Prof. Amalia Aggeli ¹ , PhD Student Anastasia Papadopoulou ¹ , Ms ME Naoum ¹ , PhD Student Elefther- ios Rizos ¹ , Dr. TB Goudoulas ¹	
	'School of Chemical Engineering, National Technical University of Athens, Athens, Greece, ² CIRIMAT, CNRS, Université de Toulouse, Toulouse, France	'Institute for Composite Materials, Kaiserslautern, Germany	'School of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece	
			CHITOSAN-ENGINEERED METAL-ORGANIC FRAMEWORKS AS ORAL DRUG NANOCARRIERS	
17.30			Dr Patriai Horcajada () Dr Tania Hidalgo ² , Dr Monica Giménez-Marques ² , Dr Elena Bellido ² , Dr Jose Avila ³ , Dr Maria del Carmen Asensio ³ , Dr Fabrice Salles ³ , Dr Maria Victoria Lozano ³ , Mrs Mazheva Guillevic ³ , Dr Rosana Simon-Vazquez ³ , Prof Africa Gonzalez-Fernandez ³ , Dr Christian Serre ³ , Prof Maria Jose Alonso ³	
17.30			'Imdea Energy, Mostoles, Spain, 'Institut Lavoisier, CNRS UMR 8180, Université de Versailles Saint-Quentin-en-Yvellines, Ver- sailles, France, 'Synchrotron SOLIE & Université Paris-Saclay, Gif-sur-Yvelte Cedex, France, '31CGM - UMR2525 Equipe AIME, Université Monpleiler II, Montpleiler, France, 'Immunolagy, Biomedical Research Center (CINBIO) and Institute of Biomedical Research of You (BIBI), Universidad de Vigo, Vigo, Spain, 'Nanobidra, 'Center for Molecular Medicine and Chronic Diseases (CIMUS), Universidad de Santiago de Compostela, Santiago de Compostela, Spain	

Symposium	AT ZUT/	A6	A7	А9
Room	3-21/M1	CR I Hall/M2	Rehearsal Room 5.17 /M1	I-11/M1
Session Title	Nanostructures	Re-entry, thermal	Transparent Conductive Oxides	Block Copolymer Membranes
Chairperson	Alicia De Andrés	Barrie Dunn	Maria Dinescu	Volker Abetz
	KEYNOTE/INVITED CARBON-BASED HETEROSTRUCTURES FOR SINGLE-MOLECULE INVESTIGATIONS	KEYNOTE/INVITED NASA'S ADVANCED TPS MATERIALS AND TECHNOLOGY DEVELOPMENT: MULTI-FUNCTIONAL MATERIALS AND SYSTEMS FOR SPACE EXPLORATION	ELECTRONIC AND STRUCTURAL CHARACTERIZATION OF BARRIER-TYPE AMORPHOUS ALUMINIUM OXIDE	KEYNOTE/INVITED DUAL STIMULI-RESPONSIVE MEMBRANOUS SYSTEM WITH MULTIPLE ON—OFF GATES
17.30			Fabio Evangelisti ¹ , Michael Stiefel ¹ , Olga Guseva ¹ , Rachel Partovi-Nia ¹ , Roland Hauerl ¹ , Erwin Hack ¹ , Lars P. H. Jeurgens ¹ , Patrik Schmutz ¹ , Claudia Can- cellieri ¹ , Francesco Ambrosio ² , Alfredo Pasquarello ²	
	Dr Matteo Palma¹	<u>Dr. Ethiraj Venkatapathy</u> ', Dr Jay Feldman', Dr. Donald Ellerby', Mr. Paul Wercinski', Ms. Robin Beck ¹	Empa, Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland, ² Chaire de Simulation à l'Echelle Atomique (CSEA), Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland	Ms Bomyi Lee, Prof. <u>Jin Kon Kim</u> ¹
	'Materials Research Institute and School of Biological & Chemical Sciences, Queen Mary University of London, London, United Kingdom	¹ NASA Ames Research Center, Moffett Field, United States	ADDITIVES EFFECTS ON TIN OXIDE MATERIAL DEVELLOPED ON SIO, SUBSTRATE	'Pohang University Of Science And Technology, South Korea
17.50			Dr. Abdallah Ouerdane	
			¹University Djilali Bounaama, Khemis Miliana, Algeria, ²Ecole Nationale Polytecnique Labmat, OranEs Senia, Algeria	
	VISIBLE-NIR DRIVEN PHOTOCATALYSIS ASSISTED BY CARBON NANOSENSITIZERS	DEVELOPMENT OF THE EUROPEAN CONFORMAL ABLATIVE-CHARRING MATERIAL AND PERFOR- MANCES ASSESSMENT	AN AEROSOL ROUTE TO PRODUCE NIO/ZnO NANOCOMPOSITE PARTICLES	HIGHLIGHT HOMOPOROUS MEMBRANES BY SELECTIVE SWELL-ING OF SOLVENT-ANNEALED AMPHIPHILIC BLOCK COPOLYMERS
18.10	Ms. M.C. Ortega-Liebana ¹² , PhD J.L. Hueso ¹² , Dr. N. Mas! Ms Ane Larrea ¹² , Dr. Victor Sebastian ¹² , Dr. Carlos Bueno-Alejo ¹² , Dr. Reyes Mallada ¹² , Dr. Gema Martinez ¹² , Dr. King Lun Yeung ³ , Professor Jesus Santamaria ¹²	<u>Gregory Pinaud</u> ¹ , Jerome Bertrand ¹ , Mathieu Desbordes ¹ , Jorge Barcena ² , George Vekinis ³	Research Asist Duygu Yesiltepe ¹ , Serzat Safaltın ¹ , Sebahattin Gürmen ¹	Prof. Yong Wang ¹
	'Department of Chemical Engineering. Aragon Institute of Nanoscience (INA), University of Zaragoza, Campus Rio Ebro-Edificia I+D, CI-Poeta Mariano Esquillor S/N, 50018, Zaragoza, Spain, 'Networking Research Center on Bioengineering, Biomaterials and Nanomedicine, CIBER-BBN, 28029, Madrid, Spain, 'Department of Chemical and Biomolecular Engineering, The Hong Kong University of Science and Technology (HKUST), Clear Water Bay, Kowloon, Hong Kong, China	'Airbus Safran Launchers, , France, ² Tecnalia, Mikeletegi Pasealekua 2, E-20009 Donostia-San Sebastián, Spain, ³ NCSR Demokritos, Agia Paraskevi Attikis, 15341, Greece	'Istanbul Technical University, Faculty of Chemical and Metallurgical Engineering. Department of Metallurgical and Materials Engineering. 34469 Istanbul, Turkey	'Membrane Science & Technology Research Center, State Key Laboratory of Materials-Oriented Chemical Engineering,Nanjing Tech University, Nanjing, China
	SIZE DEPENDENCE OF THE CRITICAL PRESSURE OF CARBON NANOTUBES UNDER HYDROSTATIC PRESSURE	POROSITY INFLUENCE ON THE THERMAL AND ABLA- TIVE BEHAVIOUR OF CARBON PHENOLIC ABLATORS UNDER SEVERE AEROTHERMAL FLUX	HIGHLIGHT PROPERTIES OF Zno NANORODS GROWN ON PATTERNED SUBSTRATES	FROM METALLIC GYROID STRUCTURES TO PIEZOELECTRIC NANOPOROUS NETWORKS
18.30	<u>Dr. Markus Hartmann</u> ¹	Emeline Arnaud¹², Prof. Damien Halm¹, Dr. Denis Bertheau¹, Dr. Julien Beaudet²	Jan Grym¹, Roman Jackiv¹, Jan Vaniš¹, Antonín Schenk¹, Šárka Chlupová¹, David Roesel¹	Katja Loos¹
	'Faculty Of Physics, University Of Vienna, Vienna, Austria	¹Institut P' - ISAE/ENSMA, Chasseneuil Du Poitou, France, ²DCNS Research, Bouguenais, France	Institute of Photonics and Electronics of the CAS, Prague, Czech Republic	'University Of Groningen, Groningen, The Netherlands
	NEW PROCESSING OPTIONS FOR ULTRA-STRONG CARBON NANOTUBE FIBRES USING CARBON ION IRRADIATION AND DEPOSITION	CHARACTERISATION OF THE BEHAVIOUR OF TYPICAL SPACECRAFT MATERIALS EXPOSED TO RE-ENTRY ENVIRONMENT CONDITIONS	BULK 8-Ga 0, SINGLE CRYSTALS WITH LOW DEFECT DENSITY FOR FUTURE HIGH POWER ELECTRONICS	NOVEL DIBLOCK COPOLYMERS AS MATERIAL FOR ISOPOROUS ULTRAFILTRATION MEMBRANES
18.50	Dr. Daniel Mulvihill', Dr. Nathan O'Brien², Prof William Curtin³, Prof Michael McCarthy²	Mr Benoit Bonvoisin¹, Mr Thorn Schleutker². Dr. Ali Gülhan², Dr Erhard Kaschnitz³, Mr Tobias Lips⁴, Mr Adam Pagan¹, Mr Bartomeu Massuti-Balestter², Dr. Georg Herdrich³, Dr. Jim Merrifield⁴, Dr. James Beck¹, Mr Jean Baptiste Gouriet³, Dr. Olivier Chazot², Mr. Tiago Soares¹, Dr. Tommaso Ghidini¹	Vladislav Bugrov ¹ . Vladimir Nikolaev ¹²³ , Alexey Pechnikov ¹² , Pavel Shirshnev ¹ , Alexei Romanov ¹³	Janina Gaalken [†] , Mathias Ulbricht [†]
	'School of Engineering, University Of Glasgow, Glasgow, United Kingdom, 'Department of Mechanical, Aeronautical and Biomedical Engineering, University of Limerick, Limerick, Ireland, 'Institute of Mechanical Engineering, EPFL Switzerland, Lausanne, Switzerland	¹ ESA-ESTEC. Noordwijk. Netherlands, ² German Aerospace Center (DLR). Cologne. Germany. ³ Österreichisches Gießerei Institut (DGI). Leoben. Austria. ⁴ Hyperschall Technology Göttingen (HTG). Kat- lenburg-Lindau. Germany, ³ Universität Stuttgart Institut für Raumfahrt systeme (IRS). Stuttgart. Germany. ⁴ Fluid Gravity Engineering Ltd. Emsworth. England. ³ Belstead Research Ltd. Ashford. England. ³ Von Karman Institute (YKI), Rhode Saint Genese. Belgium	'ITMO University, Saint-Petersburg, Russian Federation, 'Perfect crystals LLC, Saint-Petersburg, Russian Federation, 'Joffe Physical Technical Institute, Saint-Petersburg, Russian Federation	'Universität Duisburg-Essen, Lehrstuhl für Technische Chemie II, Essen, Germany
		BLACK FUNCTIONALISED SURFACES BY USING LASER TECHNOLOGIES		NANOPOROUS SEPARATION MEMBRANES FROM MICROPHASE-SEPARATED MULTIBLOCK COPOLYMERS
19.10		Materials And Processes Expert Asensio Zapata ¹ . Mechanical Products & Engineering GE Manuela Suess ² , Mechanical Products & Engineering GE Verena Strobel ¹		Jan Wieczorek¹, Prof. Dr. Mathias Ulbricht
		¹ Airbus Defence&space, Toulouse, France, ² Airbus Defence&space, Friedrichshafen, Germany, ³ Airbus Defence&space, Friedrichshafen, Germany		¹ University of Duisburg-Essen, Essen, Germany
		AEROGEL MATERIALS FOR MARS EXPLORATION		
19.30		Helena Rocha ¹ , Dr. Ugo Lafont ¹ , Dr. Christopher Semprimoschnig ¹ "ESTEC-ESA, Materials' Physics & Chemistry Section,		
		Noordwijk, Netherlands		

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Symposium	B1	B2	В4	B7
Room	Maurice Saltiel Hall I/M2	Aimilios Riadis Hall/M2	3.20/M1	CR III Hall/M2
Session Title	Thermomechanical Processing II	Processing and Manufactuing of Light Metals	Steel and High-Entropy Alloys	Membranes, Adsorption, and Separations Phenomena
Chairperson	Ernst Gamsjäger	Norbert Hort	Andrea Bachmaier	Camille Petit
	HIGHLIGHT ADVANCED HIGH STRENGTH STEEL BASED ON VANADIUM CARBIDE PRECIPITATION	HIGHLIGHT IMPACT WELDING OF LIGHT METALS: A CIVILIZED BUT EXTREME APPROACH	HIGHLIGHT STRENGTH AND SERVICE PROPERTIES OF NANO- STRUCTURED ASTM F138 STAINLESS STEEL AFTER HIGH PRESSURE TORSION	ADSORPTION OF RARE EARTH METAL IONS BY POST-SYNTHESIS FUNCTIONALIZED MIL-101 IN WATER
	Prof. Mark Rainforth! Dr Alfonce Chamisa!, Dr Jo Sharp! Mr Andrew Patterson!, Dr Peng Gong!, Dr Francis Sweeney!, Dr Arjan Rijkenberg²	<u>Dr. Anupam Vivek</u> ¹, Dr. Ali Nissari¹, Yu Mao¹, Taeson Lee¹, Geoff Taber¹, Prof. Glenn Daehn¹	Prof. Sergey Dobatkin ¹² , Dr. Olga Rybalchenko ¹² , Aleksei Tokar ² , Natalia Martynenko ² , Prof. Vladimir Terent'ev ¹ , Dr. Dmitriy Prosvirnin ¹ , Dr. Andrea Kliauga ³ , Dr. Nariman Enikeev ⁴ , Prof. Nick Birbilis ⁴ , Prof. Yuri Estrin ²	Prof. Wha-seung Ahn', Ms. Yuri Lee'
17.30	¹ The University Of Sheffield. Sheffield. United Kingdom. ² Tata Steel, Umuiden, The Netherlands	Department Of Materials Science And Engineering, The Ohio State University, Columbus, United States	'A.A. Baikov Institute Of Metallurgy And Materials Science Of Ras, Moscow, Russian Federation, *National University of Science and Technology *MISS*, Laboratory of Hybrid Nanostructured Materials, Moscow, Russian Federation, *Federal University of San Carlos, San Carlos, Brazil, *Ufla State Aviation Technical University, Institute for Physics of Advanced Materials, Ufla Russian Federation, *Saint Petersburg State University, Laboratory for Mechanics of Bulk Nanostructured Materials, Saint-Petersburg, Russian Federation, *Opepartment of Materials Science and Engineering, Monash University, Melbourne, Australia	¹Inha University, Incheon , South Korea
	EFFECT OF STRAIN ON PRECIPITATION CHARACTERISTICS IN TI-Mo ALLOYED STEEL	EXPERIMENTAL AND NUMERICAL INVESTIGATION OF RAPID SOLIDIFICATION OF AL-ALLOYS	APPROACHING THE MAXIMUM STRENGTH IN CARBON STEELS USING HIGH PRESSURE TORSION	HIGHLIGHT WATER STABLE METAL-ORGANIC FRAMEWORKS (MOFs) FOR CO ₂ CAPTURE
17.50	Mr Ilias Bikmukhametov ¹ , Dr. Peter Hodgson ¹ , Dr. Jiangting Wang ¹ , Dr. Hossein Beladi ¹ , Dr. Ilana Timokhina ¹	Dr. Jonas Valloton ¹ , Dr. Abdoul-Aziz Bogno ¹ , Prof. Hani Henein ¹ , Prof. Dieter Herlach ² , Dr. Charles-André Gandin ³	Timo Mueller ¹ , Dr. Andrea Bachmaier ¹ , Prof. Dr. Reinhard Pippan ¹	Dr Dan Zhao¹
	'Deakin University, Geelong, Australia	'University Of Alberta, Edmonton, Canada, ² Deutsches Zentrum für Luft- und Raumfahrt, Cologne, Germany, ³ MINES ParisTech, Sophia Antipolis, France	'Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria	'National University Of Singapore, Singapore
	INFLUENCE OF V(C,N) PRECIPITATES ON HOT DUCTILITY OF A V-MICROALLOYED BAINITIC STEEL	NON-DENDRITIC AL-SI ALLOYS BY SIMPLIFIED RHEOCASTING WITH MECHANICAL STIRRING	STRENGTH PROPERTIES OF AUSTENITIC STAINLESS STEELS SUBJECTED TO LARGE STRAIN WARM ROLLING	NanoMOFS IN MIXED-MATRIX MEMBRANE FOR CO ₂ CAPTURE
18.10	Mr. Mohammad Saadati¹, Dr. Davood Shahriari¹, Prof. Mohammad Jahazi¹	<u>Dr. Jose Federico Chavez</u> ¹ , M.Sc. Alfredo Hernandez ²	Miss Zhanna Yanushkevich¹, Dr Andrey Belyakov¹, Dr Rustam Kaibyshev¹	Marvin Benzaqui ^{1,2} , Prof Nathalie Steunou ¹ , Dr Christian Serre ²
	¹ Ecole de Technologie Superieure, Montreal, Canada	'Instituto Politécnico Nacional - ESIQIE, Mexico City, Mexico, [*] Tecnológico de Estudios Superiores de Coacalco, Coacalco, Mexico	Belgorod National Research University, Belgorod, Russian Federation	'Institut Lavoisier de Versailles, Versailles, France, 'Institut des Matériaux Poreux de Paris, Paris, France
	EFFECT OF AUSFORMING TEMPERATURE ON TMT OPTIMIZATION IN G91	NUMERICAL PREDICTIONS OF POTENTIAL PROBLEMS OF CLADDING PROCESSES BY TWIN-ROLL CASTING	CHARACTERIZATION OF A SEVERELY PLASTICALLY DEFORMED FEMnCoCr MEDIUM ENTROPY ALLOY	UNDER GAS-PRESSURE: NON-AMBIENT CRYSTAL- LOGRAPHY ON HIGHLY STABLE PYRAZOLATE-BASED MOFs
18.30	Mr Javier Vivas ¹ , <u>Dr Carlos Capdevila</u> ¹ , Dr Jose Antonio Jimenez ¹ , <u>Dr David San Martin¹, Dr Marta</u> Serrano ² , <u>Dr Mercedes Hernandez-Mayoral²</u>	Prof. Jong-jin Park [†]	<u>Dr. Bernhard Völker</u> ¹, Dr. Anton Hohenwarter¹	Dr. Valentina Colombo ¹ . Prof. Angelo Sironi ¹
	[†] CENIM-CSIC, Madrid, Spain, ² CIEMAT, Madrid, Spain	'Hongik University, Seoul, South Korea	¹ Department Materials Physics, Montanuniversität Leoben, 8700 Leoben, Austria	¹Università degli Studi di Milano, Milano, Italy
	EFFECT OF BORON ON MICROSTRUCTURE AND PROPERTIES OF THE PIPE STEEL	HIGHLIGHT COST-EFFECTIVE FABRICATION OF METAL MATRIX COMPOSITES (MMCs) USING HIGH SHEAR TECHNOLOGY	EFFECT OF CARBON CONTENT AND ANNEALING TREATMENTS ON THE MECHANICAL PROPERTIES AND THE MICROSTRUCTURE IN NANOCRYSTALLINE CrmnFeconi alloys doped with Carbon	MONOLITHIC METAL-ORGANIC FRAMEWORK: TOWARDS BREAKING DOE TARGETS FOR METHANE UPTAKE
18.50	Dr Anatoly Babenko ¹² , Dr Vladimir Zhuchkov ¹² , Dr Natalia Selmenskikh ¹ , <u>Dr Alena Upolovnikova</u> ¹	Dr Xinliang Yang ¹ , <u>Mr Eric Nyberg</u> ¹ , Prof. Zhongyun Fan ¹	Benjamin Schuh ¹ , Dr. Bernhard Völker ¹ , Dr. Verena Maier-Kiener ² , Dr. Francisca Mendez-Martin ² , Dr. Jiehua Li ² , Dr. Anton Hohenwarter ¹	<u>Dr Tian Tian</u> ¹, Mr Zhixin Zeng², Miss Diana Vulpe¹, Dr Mirian Casco², Professor Joaquin Silvestre-Albero³, Professor Jin-Chong Tan², Dr Peyman Moghadam¹, Dr David Fairen-Jimenez¹
	Institute Of Metallurgy Ural Branch Of The Ras, Ekat- erinburg, Russian Federation, ³ Ural Federal University named after the first President of Russia B.N. Yeltsin, Ekaterinburg, Russian Federation	BCAST, Brunel University London, Uxbridge UB8 3PH, UK	Department of Materials Physics, University of Leoben and Erich Schmid Institute of Materials Science, Austri- an Academy of Sciences, Leoben, Austria, Department of Physical Metallurgy and Materials Testing, University of Leoben, Leoben, Austria, Institute of Casting Re- search, University of Leoben, Leoben, Austria	University of Cambridge, Cambridge, United Kingdom, ² University of Oxford, Oxford, United Kingdom, ² Universidad de Alicante, Alicante, Spain
	EFFECT OF REHEATING TEMPERATURE AND COOLING TREATMENT ON THE MICROSTRUCTURE, TEXTURE AND IMPACT TRANSITION BEHAVIOUR OF HEAT TREATED NAVAL GRADE HSLA STEEL	HIGH MODULUS ALUMINIUM-BASED NANOCOMPOS- ITES: NEW REQUIREMENT OF AUTOMOTIVE MARKET	THERMALLY ACTIVATED PLASTICITY OF COARSE GRAINED AND NANOCRYSTALLINE Cocrfenimm High entropy alloy at low temperatures	NOVEL NI-IRMOF-74 POST-SYNTHETHICALLY FUNCTIONALIZED FOR H ₂ STORAGE APPLICATIONS
19.10	Mr. Md. Basiruddin Sk¹, Dr. Abhijit Ghosh¹. Mr. Nirmalya Rarhi², Dr. R. Balamuralikrishnan², Dr. Debalay Chakrabarti¹	Dr. Sajjad Amirkhanlou ¹ , Dr. Yijie Zhang ¹ , Dr. Shouxun Ji ¹	Dr. Aleksey Podolskiy ¹ , Dr. Elena Tabachnikova ¹ , Prof. Erhard Schafler ² , Dr. Mikhail Tikhonovsky ³ , Prof. Michael Zehetbauer ²	Dr. Gisela Orcajo ¹ , PhD. Student Helena Montes- Andrés ¹ , Dr. Carmen Martos ¹ , Dr. Juan Angel Botas ¹ , <u>Prof. Guillermo Calleja</u> ¹
	¹Indian Institute Of Technology Kharagpur, Metallurgi- cal And Materials Engineering Department, lit Kharag- pur, Kharagpur, India ²Defence Metallurgical Research Laboratory, Kanchambagh, P.O. Hyderabad, India	¹ BCAST, Brunel University London, London, United Kingdom	¹ B. Verkin Institute for Low Temperature Physics & Engineering, 47 Nauky Ave. 61103, Kharkiv, Ukraine. Physics of Nanostructured Materials, Faculty of Physics University of Vienna. Bottzmanngasse 5, A-1090. Wien, Austria. National Science Center, Kharkov Institute of Physics and Technology, 1 Akademicheskaya Str., 1108, Kharkiv, Ukraine	'Department of Chemical and Energy Technology, Universidad Rey Juan Carlos, Móstoles, España
19.30				
19.30				



Symposium	B8	В9	C1	C3
Room	Conference Room 1/M1	I-08/M1	Friends of Music Hall/M1	Maurice Saltiel Hall III/M2
Session Title	Defects and multi-phase alloys	Crystallization and structural inhomgeneities in BMGs	Surface engineering and modifications 1/3 -Corrosion	Densification processes
Chairperson	Livio Battezzati	K. Shamlaye, K. Georgarakis	Kim Dogeun, Elias Aperathitis	Sergio Mestre
	DEFORMATION MECHANISMS OF FeCoCrNI HIGH ENTROPY ALLOY: IN SITU NEUTRON AND SYNCHROTRON INVESTIGATION	HIGHLIGHT STRUCTURAL REORDERING AND CONTROLLED NANOCRYSTALLIZATION IN METALLIC GLASSES	HIGHLIGHT INCREASED CORROSION RESISTANCE BY SURFACE MODIFICATION USING INTENSE PULSED ELECTRON BEAMS	HIGHLIGHT LIQUID PHASE SINTERING OF PM STEEL WITH MASTER ALLOY CONTAINING BORON
17.30	Dr Biao Cai ¹ , Dr Bin Liu ² , Dr Yiqiang Wang ¹ , Dr Saurabh Kabra ³ , Dr Kun Yan ¹ , Prof Peter Lee ¹ , Prof Yong Liu ²	Dr. Baran Sarac', Dr. Andrea Bernasconi ² , Prof. Mihai Stoica ³ , Prof. Jürgen Eckert ⁴	Dr. Alfons Weisenburger ¹ , Dr. Adrian Jianu ¹ , Dr. Annette Heinzel ¹ , Wladimir An ¹ , Dr. Renate Fetzer ¹ , Fabian Lang ¹ , Frank Zimmermann ¹ , Prof. Georg Mülter ¹	Mr Maheswaran Vattur Sundaram ¹ , Dr. Yiming Yao ¹ , Dr. Eduard Hryha ¹ , Prof. Lars Nyborg ¹
	¹ University Of Manchester/materials. Oxford. United Kingdom. ² State Key Laboratory for Powder Metallurgy. Central South University. Changsha. China. ¹ SIS Facility. Rutherford Appleton Laboratory. Didcot. United Kingdom	Erich Schmid Institute Of Materials Science. Leoben, Austria, University of Pavia, Pavia, Italy, "ETH Zurich, Zurich, Switzerland, "Montanuniversität Leoben, Leoben, Austria	¹ Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen	¹ Chalmers University of Technology, Gothenburg, Sweden
	PHASE DECOMPOSITION OF A SINGLE-PHASE AITIVND HIGH-ENTROPY ALLOY AFTER SEVERE PLASTIC DEFORMATION AND ANNEALING	A SYNCHROTRON RADIATION STUDY OF DEALLOYING AMORPHOUS ALLOYS	STATEGIES TO CORRELATE THE MICROSTRUCTURE OF CHROMIUM BASED AND CHROMIUM FREE CON- VERSION LAYERS ON ALUMINIUM ALLOY TO THEIR ELECTROCHEMICAL PROPERTIES	MATERIAL SOLUTIONS AND PROCESS ROUTES FOR HIGH PERFORMANCE PM STEEL COMPONENTS
17.50	Benjamin Schuh ¹ , Dr. Bernhard Völker ¹ , Dr. Jiehua L ^P . Dr. Verena Maier-Kiener ² , Dr. Juraj Todt ⁴ , Dr. Anton Hohenwarter ¹	Dr Sara Goberna Ferrón¹, Dr. Eirini Maria Pascha- lidou², Prof. Livio Battezzati², Dr. Gavin Vaughan¹	Mr Quentin BOYER!, Dr. Sandrine DULUARD!, Dr. Jean-Pierre BONINO!, Dr. Benoît FORP, Dr. Florence ANSART!	Ph.D Dimitris Chasoglou ¹
	¹ Department Of Materials Physics. University Of Leoben, Leoben, Austria. ² Chair of Casting Research, University of Leoben, Leoben, Austria. ³ Department of Physicial Metallurgy and Materials Testing, University of Leoben, Leoben, Austria. ⁴ Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria	¹ European Synchrotron Radiation Facility, Grenoble, France, ² Dipartimento di Chimica, Universita di Torino, Torino, Italy	¹ CIRIMAT. Université de Toulouse, INPT.UPS, CNRS. Université Toulouse 3 Paul Sabatier, Toulouse, France, ² Mecoprotec Industries, Muret, France	¹ Höganäs AB, Höganäs, Sweden
	THE SCANDIUM EFFECT IN HIGH-ENTROPY ALLOYS	PROCESSING AND MICROSTRUCTURE OF Fe-BASED BULK METALLIC GLASSES	ROLE OF ANODIZATION TREATMENT FOR IN-SITU GROWTH OF LDH-NANOCONTAINERS USED FOR ACTIVE CORROSION PROTECTION OF ALUMINUM ALLOY AA2024	CERAMICS BY DETONATION OF HIGHLY ENERGETIC MATERIALS
18.10	<u>Miss Sephira Riva</u> ', Prof Stephen G.R. Brown', Dr Nicholas P. Lavery', Dr Kirill V. Yusenko'	<u>Dr. Marek Smaga',</u> Shayan Deldar ¹ , Prof. Tilmann Beck ¹ , Dr. Mariusz Hasiak ² , Prof. Jerzy Kaleta ²	Dr. Maria Serdechnova ¹ , Dr. Marta Mohedano ² , Dr. Sergey Karpushenkov ³ , Dr. Carsten Blawert ¹ , Prof. Dr. Mikhail Zheludkevich ¹	<u>Dr. Pierre GIBOT</u> ', Dr. Denis SPITZER ¹
	¹ Callege of Engineering. Swansea University, Swansea. United Kingdom	¹ Institute of Materials Science and Engineering, Kaiserslautern, Germany, ² Department of Mechanics and Materials Science, Wroclaw, Poland	¹ Helmholtz Zentrum Geesthacht, Geesthacht, Germany, ² Universidad Complutense Madrid, Madrid, Spain, ³ Belarusian State University, Minsk, Belarus	¹ Laboratory of Nanomaterials for Systems under Extreme Stresses UMR 3208 CNRS/ISL/UNISTRA, French German Research Institute of Saint-Louis, 5 rue du General Cassagnou BP 70034 – 68301 Saint-Louis, France
	AIC:FeNimn/Gr HIGH ENTROPY COMPOSITE PROCESSED BY MECHANICAL ALLOYING AND SPARK PLASMA SINTERING	YTTRIUM ADDITION IN THE Cu-Zr-Ti TERNARY SYSTEM	ANODIZING OF MAGNESIUM IN ALKALINE MEDIA: A DESCRIPTION OF THE MECHANISMS LEADING TO THE DIELECTRIC BREAKDOWN	SINTERING OF CUCF COMPOSITES FOR CAPACITIVE SWITCHING
18.30	Dr Gabriela Popescu ¹ . Dr. Ioana Csaki ¹ . Dr. Cristian Aurelian Popescu ¹ . PhD student Lucian Rosu ¹ . Dr. Dumitru Mitrica ² . Dr. Vasile Soare ²	Oriane Baulin ¹ , Damien Fabrègue ¹ , Sébastien Gravier ² , Jean-Marc Pelletier ¹	Delphine VEYS-RENAUX ¹ , <u>Alexandre ZIMMER</u> ¹ , Nicolas STEIN ¹ , Emmanuel ROCCA ¹	Dr. Anthony Papillon ¹ , <u>Dr. Sophie Roure</u> ¹ , M.S. Melissa Chosson ¹
	¹ University Politehnica Bucharest, Bucharest, Romania, ³ National R&D Institute for Nonferrous and Rare Metals - IMNR, 102 Biruintei Blvd, Pan- telimon, Ilfov County, Romania, 077145, Romania	¹ Mateis Laboratory, Lyon, France, ² SIMAP, GPM2, Grenoble, France	¹Institut Jean Lamour - Université De Lorraine, France	¹ Schneider Electric, Grenoble, France
	A PROPOSED SOLIDIFICATION SEQUENCE THEORY BASED ON EXPERIMENTAL AND PARAMETRIC MODELING DATA FOR VARIOUS REFRACTORY HIGH ENTROPY ALLOYS	DISSIMILAR STRUCTURE HETEROGENEITY IN U-BASED AMORPHOUS ALLOYS REVEALED BY NANOINDENTATION CREEP AND XAFS	A CHEMICAL VIEW OF CHROMATE CONVERSION COATING ON MACNESIUM ALLOYS EV31A: AN XPS AND AUGER SPECTROSCOPIES APPROACH	
18.50	<u>Dipl. Eng. Emmanuel Georgatis</u> ¹, Dipl. Eng. Anthoula Poulia¹, Dr. Alexander Karantzalis¹	Assoc. Prof.Hai Bo Ke ¹ , Assoc. Prof. Huo Gen Huang ¹ , Hong Yang Xu ¹ , <u>Assitant Prof. Pei Zhang</u> ¹ , Peng Guo Zhang ¹ , Prof. Tian Wei Liu ¹	Dr. Jean-Charles Dupin ¹ , Dr. Arnaud Uhart ¹ , Dr. Jean-Bernard Ledeuit ¹ , Prof. Hervé Martinez ¹ , Dr. Jérôme Frayret ¹	
	¹University Of Ioannina, Ioannina, Greece	¹ Institute of Materials China Academy of Engineer- ing Physics, Mianyang, China	¹lprem / Cnrs Umr5254, Pau, France	
	PRIORITY PROGRAMME "COMPOSITIONALLY COMPLEX ALLOYS - HIGH ENTROPY ALLOYS (CCA - HEA)" FUNDED BY GERMAN RESEARCH FOUNDATION (DFG)	URANIUM-INCLUDED BULK METALLIC GLASS MATRIX COMPOSITES	INFLUENCE OF CYCLIC OXIDATION IN MOIST AIR On Surface Oxidation-Affected zones	
19.10	"COMPOSITIONALLY COMPLEX ALLOYS - HIGH ENTROPY ALLOYS (CCA - HEA)" Prof. Dring. Uwe Glatzel	Assoc. Prof. Huagen Huang ¹ . Assoc. Prof. Haibo Ke ¹ , Dr. Pei Zhang ¹	Phd Mattias Calmunger ¹ , Phd Robert Eriksson ¹ , Prof. Guocai Chai ¹² , Prof. Sten Johansson ¹ , Prof. Johan Moverare ¹	
	University Bayreuth, Bayreuth, Germany	¹ Institute Of Materials. China Academy Of Engineering Physics. Mianyang. China	¹ Department of Management and Engineering, Linköping University, Linköping, Sweden, ² AB Sandvik Materials Technology R&D Center, Sandviken, Sweden	

EUKUM Symposium	C4	C5	CB	C9
Room	Conference Room 4/M1	Museum Hall /M2	Library Hall/M2	Conference Room 3/M1
Session Title	Special products and new processes in Additive Manufacturing	Wetting	Non-Ferrous and Special Purpose Alloys	Various materials processing technologies
Chairperson	Eduard Hryha	Simeon Agathopoulos, Enrique Louis	Ji Zhang, Sheng Guo	Torsten Rabe
	MICROSTRUCTURE CHARACTERIZATION OF FUNCTIONALLY GRADED MATERIALS TI64-Mo BY CLAD PROCESS	FACTORS AFFECTING WETTING AND REACTIVITY IN SI/CERAMIC SYSTEMS AT ULTRAHIGH TEMPERATURES T>1450°C	CHARACTERIZATION OF NEW PLATINUM CASTING ALLOYS WITH APPLICATION IN JEWELRY PRODUCTION	ULTRASONIC PULTRUSION IN-LINE CURE MONITORING
17.30	Catherine Schneider-Maunoury ^{1,2} , Laurent Weiss ² , Philippe Acquier ¹ , Dider Boisselier ¹ . Pascal Laheurte ²		Tanja Trosch ¹	Christian Pommer ¹
	¹Irepa Laser, Strasbourg, France,²LEM3, Metz, France	Natalia Sobczak ¹	¹ Metals and Alloys, University Bayreuth, Bayreuth, Germany, ² Varinor, Delémont, Swiss	[†] Tu-braunschweig, Braunschweig, Germany
	LIGHT WEIGHTING IN METAL ADDITIVE MANUFACTURING	'Foundry Research Institute, Centre for High Temperature Studies, Krakow, Poland	TENSILE DUCTILITY OF CAST TIAI ALLOY INFLUENCED BY THE RESIDUAL STRESS	IMPROVED MICROSTRUCTURE AND STRENGTH OF ADVANCED CERAMICS BY CONTROLLED SLURRY DESTABILIZATION AND ULTRASONIC ATOMIZATION
17.50	Prof. Dan Thoma', Professor Krishnan Suresh', Tej Kumar ^{1,} Buzz Rankouhi ¹ , Dr. William Aquite ¹ , Dr. David Gross ¹		Prof. Ji Zhang¹	Dr. Torsten Rabe ¹ , Dr. Patrick Hoehne, Petra Kuchenbecker, Wolfgang Guether
	¹ University Of Wisconcon, Madison, United States		¹China Iron And Steel Research Institute Group, Beijing, China	¹ Federal Institute For Materials Research And Testing, Berlin, Germany
	ASSESSMENT OF ADDITIVELY MANUFACTURED LATTICE STRUCTURES FOR GAS TURBINE APPLICATIONS	AT THE TRIPLE LINE AND AT THE INTERFACE OF THE Ir-SI/C SYSTEM	THE APPLICATION OF CENTRIFUGAL ATOMIZATION METHOD FOR PREPARATION OF RAPIDLY SOLIDIFIED NA-Fe-B FLAKES USED FOR PRODUCTION OF PERMANENT MAGNETS	FABRICATION OF AA5083 – MULTIWALL CARBON NANOTUBES (MWCNTs) COMPOSITE METAL FOAM BY FRICTION STIR PROCESSING ROUTE (FSP) AND MICROSTRUCTURAL CHARACTERIZATION
18.10	M.Sc./eq, DiplIng, Lena Farahbodl ² , Prof. DrIng, habil. Gerd Witt ² , DrIng. Sebastian Piegert ¹ , DrIng. Christoph Haberland ¹	Dr Donatella Giuranno ¹ . Mr Antonio Camarano ² , Dr Rada Novakovic ¹ , Dr Enrica Ricci ¹ . Prof Javier Narciso ²	<u>Dr. Mihael Bruncko</u> ¹² , Peter Kirbis ¹ , Ziga Erman ² , dr. Ivan Anzel ¹	Phd Candidate Ioannis Papantoniou¹. MSc Helen Kyriakopoulou¹, Prof. Dimitrios Pantelis¹. Prof. Dimitrios Manolakos¹
	"Siemens AG, Power and Gas, Berlin, Germany, 2University of Duisburg-Essen, Duisburg, Germany	"National Research Council (CNR)—Institute of Con- densed Matter Chemistry and Technologies for Energy (ICMATE), Via De Marini 6, 16149, Genoa, Italy, Instituto Universitario de Materiales de Alicante (IUMA), Univer- sidad de Alicante, Apdo. 99, 03080, Alicante, Spain	'University of Maribor, Faculty of Mechanical Engi- neering, Maribor, Slovenia, ² Magneti Ljubljana d.d., Ljubljana, Slovenia	'NH, Athens, Greece
	ADDITIVE MANUFACTURING OF NEW LIGHTWEIGHT ARCHITECTURED MATERIALS WITH OPEN POROSITIES	REACTIVITY BETWEEN SIC SINGLE CRYSTALS AND IR AT HIGH TEMPERATURE	ANALYSIS OF MICROSTRUCTURE AND SLIDING WEAR BEHAVIOR OF Co ^{1,5} CrFeNi ^{1,5} Ti0, ⁵ HIGH ENTROPY ALLOY	METAL POWDER COMPOSITE GLUE FOR INDUCTION HEATING IN SHOE MANUFACTURING PROCESS
18.30	PhD Paul Lohmuller ¹² , PhD Julien Favre ¹ , PhD Samuel Kenzari ² , PhD Boris Piotrowski ¹ , PhD Pascal Laheurle ¹	Prof. Javier Narciso¹ Doctor Enrica Ricci², Doctor Rada Novakovic², Doctor Donatella Giuranno², Doctor Antonio Camarano¹	Dr. Konstantinos Lentzaris ¹ , MSc. Anthoula Poulia ¹ , DipL Eng. Emmanuel Georgalis ¹ , Prof. Angela Lekatou ¹ , Ass. Prof. Alexander Karantzalis ¹	Dr. Sung-Hyuk Song ¹ , Dr. Byungin Kim ¹ , Dr. Heechang Park ¹ , Dr. Sangtaek Oh ²
	'Lem3, Metz, France. ² Institut Jean Lamour, Nancy, France	'Alicante University, Alicante, Spain, ² CNR-ICMATE, Genova, Italy	'University of loannina, loannina, Greece	'Department of Robotics and Mechatronics, Korea Institute of Machinery and Materials, Daejeon, South Korea, 'Organic Material Research Division, Korea Institute of Footwear and Leather Technology, Busan, South Korea
	MORPHOLOGY OF BINDER-JET ADDITIVE MANUFACTURED METAL MATRIX COMPOSITES	IN-SITU APPARATUS TO STUDY GAS-METAL REAC- TIONS AND WETTABILITY AT HIGH TEMPERATURES	SOLID SOLUTIONING IN CoCrFeNimx (M=4d TRANSITION METAL) HIGH-ENTROPY ALLOYS	ELECTRICAL ASSISTED UNIAXIAL TENSILE TEST ON UNS S32205, UNS S32304 AND UNS S32750 DUPLEX STAINLESS STEELS
18.50	Dr. Cindy Waters ¹ , Bernard Amamchukwu Ilogebe ¹ , Cameron Shackleford ¹ , Dr. Amelia Elliott ² , Mohammad Khan ¹	<u>Dr. Alexey Koltsov</u> ¹ , Dr. Marie-José Cornu ¹ , Julien Scheid ¹	Dr. Sheng Guo ¹	Engineer Claudio Gennari ¹ , Prof. Michele Forzan ¹ , Prof. Stefania Bruschi ¹ , Prof. Irene Calliari ¹ , Student Wen Shi ² , Prof. Xianghuai Dong ²
	North Carolina A&t State University, Greensboro, United States, ² Oak Ridge National Labs, Oak Ridge, United States	'ArcelorMittal Research, Maizières-lès-Metz, France	¹ Chalmers University Of Technology, Gothenburg, Sweden	¹ University Of Padua, Padua, Italy, ² Jiao Tong University, Shanghai, China
	SPRAY APPLICATION FOR MECHANICALLY ALLOYED ODS POWDER	WETTING DYNAMICS OF LIQUID LEAD AND ZINC ON SILICA-PATTERNED IRON	COMPOSITE LAYER TIC-Fe FABRICATED IN SITU IN STEEL CASTING	
19.10	Suk Hoon Kang', Dong-Yong Park ² , Sanghoon Noh ¹ , Jinsung Jang ¹ , Tae Kyu Kim ¹	Moustapha Diallo ¹² , Prof.Hervé Duval ¹ , Dr Alexey Koltsov ² , Jean-Michel Mataigne ² , Prof. Marie-Laurence Giorgi ¹	Msc Łukasz Szymański! ¹² , PhD Ewa Olejnik ¹² , PhD Marta Gajewska ³ , PhD Sylwia Żymankowska - Ku- mon ¹ , PhD Dariusz Drożyński ¹ , PhD Tomasz Tokarski ²	
	¹ Korea Atomic Energy Research Institute, Daejeon, South Korea, ² Nara KIC, Gyeongsangbuk-do, South Korea	¹ CentraleSupélec, France, ² ArcelorMittal Global R&D, France	'AGH University Of Science And Technology, Faculty of Foundry Engineering, Cracow, Poland, 'Innerco sp. zo.o., Cracow, Poland, 'AGH University of Science and Technology, Academic Centre of Materials and Nanotechnology, Cracow, Poland	
	MICROSTRUCTURE AND MECHANICAL PROPERTIES OF CUAISNI6 PRODUCED BY WIRE ARC ADDITIVE MANUFACTURING FOR MARINE APPLICATIONS			
19.30	Dr. ir. Wei Ya ¹²⁵ , MSc Constantinos Goulas ^{1,35} , MSc Kelvin Hamilton ⁴ , Dr. ir. M.C.M. Hermans ³ , Dr. ir. G. R. B. E. Romer ² , Prof. Dr. I.M. Richardson ³			
	"Rotterdam Additive Manufacture Fieldlab (RAMLAB), Rotterdam, Netherlands, ² University of Twente, Enschede, Netherlands, ² Delft University of Technology, Delft, Netherlands, ⁴ Autodesk BV, Hoofddorp, Neth- erlands, ³ Materials innovation institute (MZi), Delft, Netherlands			
	Rotterdam Additive Manufacture Fieldlab (RAMLAB), Rotterdam, Netherlands, "University Of Twente, Enschede, Netherlands, "Delft University of Technology, Delft, Netherlands, "Autodesk BY, Hoofdorp, Neth- erlands, "Materials innovation institute (MZi), Delft,			



Symposium	C10	C11	D1	D5
Room	F 319/M1	MOYSA Hall/M2	Artist Cafe/M1	I-15/M1
Session Title	Microstructure stability, recrystallization and deformation behaviour	Devices for Memory and Logic	Magnetic and Ferroelectric Materials	Industrial Processes and Valorisation
Chairperson	A. Belyakov, R. Massion	Marco Fanciulli	Makis Angelakeris, Maria Katsikini	Claas Hüter
	HIGHLIGHT EXPERIMENTAL INVESTIGATION OF THE INFLUENCE OF NANOSCALED PARTICLES AND GB SEGREGATIONS ON THE THERMAL STABILITY OF UFG AI ALLOYS	A POLY-SILICON-BASED PROJECTED PHASE-CHANGE MEMORY DEVICE	SOFT-PHONON-DRIVEN ORBITAL ORDER IN CaMn7012: AN X-RAY DIFFUSE AND INELASTIC SCATTERING STUDY	INTEGRATED MODELING OF MATERIALS MICRO- STRUCTURE DURING THERMO-MECHANICAL PROCESSING: A Dyna2MICRO MATERIAL MODEL
17.30	Xavier Sauvage ¹ , Amandine Duchaussoy ¹ , Elena Bobruk ² , Maxim Murashkin ²³ , Nariman Enikeev ²³ , Ruslan Valiev ²³	lason Giannopoulos ^{1*} , Dr. Abu Sebastian ¹ , Vara Prasad Jonnalagadda ¹ , Dr. Wabe Koelmans ¹ , Manuel Le Gallo ¹ , Dr. Evangelos Eleftheriou ¹	Dr. Sofia Michaela Soutiou ¹ , Dr. Yuan Li ²³ , Dr. X Du ² , Prof Mathieu Le Tacon ⁴ , Dr. Alexei Bosak ¹	Dr.tech. Evgeniya Kabliman ¹ , DiplIng. Dr.mont. Carina Schlögl ¹ , DiplIng. Johannes Kronsteiner ¹ , Univ. Prof. DiplIng. Dr.tech. Ernst Kozeschnik ²
	Normandie Université - Groupe De Physique Des Matériaux- CNRS, Saint Etienne Du Rouvray, France, *Institute of Physics of Advanced Materials, Ufa State Aviation Technical University, Ufa, Russia, *Research Labaratory for Mechanics of New Manomaterials, Saint Petersburg State Polytechnical University, Saint Petersburg, Russia	¹ IBM Research, Rüschlikon, Switzerland, ² Swiss Federal Institute of Technology (ETH Zürich), Zurich, Switzerland	¹ European Synchrotron Radiation Facility, Greno- ble, France, ² International Center for Quantum Materials, School of Physics, Peking University, Beijing, China, ³ Collaborative Innovation Center of Quantum Matter, Beijing, China, ⁴ Karlsruhe Insti- tute of Technology, Institut fur Festkorperphysik, Karlsruhe, Germany	'LKR Leichtmetallkompetenzzentrum Ranshofen GmbH, Center for Low-Emission Transport, AIT Austrian Institute of Technology GmbH, Vienna, Austria, Institute of Materials Science and Technology, TU Wien, Vienna, Austria
	TEMPERATURE EFFECT ON STRAIN LOCALIZATION DURING DPD COMPRESSION TESTS OF AA 2017-T4 ALLOY	JUNCTIONLESS SI-NANOWIRE FET SONOS MEMORIES	HIGH THROUGHPUT ASSESSMENTS FOR ACCELERATED PERMANENT MAGNET DEVELOPMENT	EFFICIENT SEARCH OF MULTI-PHASE, MULTI-COM- PONENT THERMODYNAMIC SPACES AS SOLUTION TO A CONSTRAINT SATISFACTION PROBLEM
17.50	Bermane Beucia ¹ , David Tingaud ¹ , Hervé Couque ² , Thierry Chauveau ¹ , Ovidiu Brinza ¹ , Jérôme Mespou- let ^{1,3} , Pierre Hereil ³ , Guy Dirras ¹	Dr Vassilios Ioannou-Sougleridis', Dr. Panagiotis Dimitrakis', Dr. Dimitrios Velessiotis', Dr. Nikolaos Ni- kolaou', Georgios Papageorgiou', Dr. CA Dimitriadis', Dr. DH Tassis', Dr. A Tsormpatzoglou', Dr. Pascal Normand	Matthew Kramer ¹ , R.T. Olti ¹ , J. Geng ¹ , Tieren Gao ² , Ichiro Takeuchi ² , Feng Ren ² , Apurva Mehta ³ , Chris Tassone ³ , Doug Van Campen ²	Associate Professor Raymundo Arroyave ^{1,2} , Graduate Research Assistant Tanner Kirk ² , Undergraduate Researcher Assistant Anas Abu-Odeh ^{1,2} , Postdoctoral Scholar Edgar Galvan ² , Associate Professor Richard J. Malak ²
	Université Paris 13. Sorbonne Paris Cité, LSPM-CNRS, Villetaneuse, France, France, *Nexter Munition, Bourg- es, France, 3Thiot Ingenierie, Puybrun, France	^I Institute of Nanoscience and Nanotechnology, NCSR Demokritos', 153-41 Aghia Paraskevi , Greece, ² Department of Physics, AUTh, Thessaloniki, Greece	Ames Laboratory/ lowa State University, Ames, United States: "Department of Materials Science and Engi- neering, University of Maryland, Callege Park, United States: "Stanford Synchrotron Radiation Lightsource, SLAC National Accelerator Laboratory, Menio Park, United States	¹ Department of Materials Science and Engineering, Texas A&m University, College Station, United States, ² Department of Mechanical Engineering, Texas A&M University, College Station, United States
	ENHANCEMENT OF STRENGTH OF EZ33A MAGNESIUM ALLOY BY EQUAL CHANNEL ANGULAR PRESSING (ECAP) PROCESSING	A SPIN QUANTUM-BIT AS A FAST SENSOR OF QUANTUM HALL EFFECT EDGE STATES	SPATIALLY RESOLVED INVESTIGATION OF ALL OPTICAL MAGNETIZATION SWITCHING IN FeTD ALLOY	A THERMODYNAMICALLY CONSISTENT MATERIAL MODEL FOR THE THERMOMECHANICAL PROCESSING OF PRECIPITATION-HARDENED ALLOYS
18.10	PhD Eng. Krzysztof Bryla ¹ , PhD Maciej Krystian ² , PhD Jelena Horky ² , PhD Berhard Mingler ² , Assoc. Prof. Krzysztof Mroczka ¹ , PhD Pawel Kurtyka ¹ , Assoc. Prof. Lidia Litynska-Dobrzynska ³	Dr Konstantinos Rogdakis¹, Mr Vivien Thiney¹². Dr. Arne Ludwig³, Prof. Adreas Wieck³, Dr. Christopher Bäuerle¹², Dr. Tristan Meunier¹²	Ashima Arora', Mohamad-Assaad Mawass', Florin Rađu', Ahmet Ünat ¹² , Sergio Valencia', Florian Kronast ¹	M.Sc. Lukas Kertsch ¹ , Dr. Dirk Helm ¹
	Institute of Technology, Pedagogical University, Krakow, Po- land, "AlT Austrian Institute of Technology, Center for Health & Bioresources, Biomedical Systems, Wiener Neustadt, Austria, "Institute of Metallurgy and Material Science of the Polish Academy of Sciences, Krakow, Poland	CNRS, Institut NEEL, F- 38042 Grenoble, France Grenoble, France ² Univ. Grenoble Alpes, Institut NEEL, F-38042 Grenoble, France, Grenoble, France, ² Lehrstuhl für Angewandte Festkörperphysik, Ruhr - Universität Bochum, Universitätsstraße 150, D - 44780 Bochum, Germany	Helmholtz-zentrum Berlin Für Materialien Und Ener- gie, Berlin, Germany, 'Max Born Institute for Nonlinear Optics and Short Pulse Spectroscopy, Berlin, Germany	'Fraunhofer Institute for Mechanics of Materials IWM, Freiburg, Germany
	INVESTIGATION OF STRENGTHENING MECHANISMS OF ULTRAFINE-GRAINED STRUCTURE IN TITANIUM DURING ECAP-CONFORM	CHARACTERIZATION OF 5b-BASED MID-INFRARED MATERIALS AND DEVICES MONOLITHICALLY GROWN ON SILICON SUBSTRATE	THE WONDERS OF CO FILMS INTERCALATED BELOW GRAPHENE	COMPUTATIONAL SIMULATION AND EXPERIMENTAL VERIFICATION OF AIN AND MNS PRECIPITATION BEHAVIOR DURING THE HEAT TREATMENT PROCESS OF FERRITIC STEEL
18.30	G.S. Dyakonov, S.Y. Mironov ² , I.P. Semenova ¹ , G.I. Raab ¹ , R.Z. Valiev ^{1,3}	Evangelia Delli ¹	<u>Ilaria Carlomagno</u> ¹²⁴ , Prof. Carlo Meneghini ¹ , Dr Jakub Drnec ² , Dr Roberto Felici ² , Andrea Maria Scaparro ¹ , Sara Cicia ¹	Mr Hojun Gwon ¹ , Dr. Singon Kang ¹ , Dr. Bruno C. De Cooman ¹
	Institute of Physics of Advanced Materials. Ufa State Aviation Technical University. Ufa. Russian Federation. ² Department of Materials Processing, Graduate School of Engineering, Tohoku University, Sendai, Japan. ² Laboratory for Mechanics of Bulk Nanostructured Materials, Saint Petersburg State University, Peterhof, Saint Petersburg, Russian Federation	¹ Lancaster University, Lancaster, United Kingdom	¹ Università Roma Tre, Roma, Italy, ² ESRF, Grenoble, France, ³ SPIN-CNR, Roma, Italy, ⁴ Université Grenoble Alpes, Grenoble, France	¹ Graduate Institute Of Ferrous Technology, Postech, Pohang, South Korea
	HIGHLIGHT ENHANCED SUPERPLASTICITY OF ULTRAF- INE-GRAINED TI-6AI-4V ALLOY FABRICATED WITHOUT IMPOSING SEVERE PLASTIC DEFORMATION	INN FIELD-EFFECT TRANSISTORS WITH IN-SITU SINX GATE DIELECTRIC		ON THE ROLE OF FERRITE IN SUPPRESSING THE QUENCHING-INDUCED DISTORTION OF CARBURIZED STEEL COMPONENTS
18.50	<u>Daehwan Kim</u> ¹, Gyeonghyun Jang¹, Yongmoon Lee¹, Chong Soo Lee¹	Christos Zervos ¹² , Adam Adikimenakis ¹ , Petros Beleniotis ² , Athanasios Kostopoulos ¹ , Maria Kayam- baki ¹ , Katerina Tsagaraki ¹ , George Konstantinidis ¹ , Alexandros Georgakilas ¹ ²		Hamidreza Farivar¹, M. Hans², U. Prahl¹
	'Gradate Institute of Ferrous Technology, Pohang University Of Science And Technology, Pohang, Republic of Korea	Microelectronics Research Group (MRG), Institute Of Electronic Structure and Laser (IESL), Foundation For Research and Technology-hellas (FORTH), Heraklion, Greece, *University of Crete, Physics Department, Heraklion, Greece		'Steel Institute (IEHK), RWTH Aachen University, Aachen, Germany, 'Materials Chemistry (MCh), RWTH Aachen University, Aachen, Germany
	ELEVATED TEMPERATURE MECHANICAL RESPONSE OF TITANIUM AFTER SEVERE PLASTIC DEFORMATION	EVALUATION AND UNDERSTANDING OF SIZE EFFECTS ON THE CONDUCTIVITY OF SPONTANEOUSLY GROWN GAN NANOWIRES		INFLUENCE OF SEGREGATION, PRIMARY PRE- CIPITATION AND PROCESS CHAIN ON GRAIN SIZE STABILITY IN CASE HARDENING STEELS
19.10	Prof. G. Guven Yapici ¹ , Mr. Seyedvahid Sajadifar ¹	George Doundoulakis ^{1,2} , Antonis Stavrinidis ¹ , Savvas Eftychis ^{1,2} , Maria Androulidaki ¹ , Katerina Tsagaraki ¹ , Maria Kayambaki ¹ , George Konstantinidis ¹ , Alexan- dros Georgakilas ^{1,2}		<u>DiplIng. Viktor Kripak</u> ¹, DrIng. Ulrich Prahl¹, UnivProf. DrIng. Wolfgang Bleck¹
	Ozyegin University, Istanbul, Turkey	Microelectronics Research Group, Institute of Electronic Structure and Laser (IESL), FORTH, P.O. Box 1385, 71110, Heraklion-Crete, Greece, ² Department of Physics, University of Crete, P.O. Box 2208, 70013, Heraklion-Crete, Greece		'Rwth Aachen, Aachen, Germany



Symposium	D8	D10	E6	F6
Room	I -16/M1	CR II Hall/M2	Maurice Saltiel Hall II/M2	Conference Room 2/M1
Session Title	Precipitation and decomposition in alloys	Polymeric systems and nanocomposites	Materials for cryogenic hydrogen fuel tanks	Functional properties of natural materials
Chairperson	Ralf Drautz	Peggy Havet, Konstantinos Tserpes	Jörg Hohe	Anna Tampieri
	AB-INITIO MODELING OF ANOMALOUS PRECIPITA- TION IN DILUTE NEUTRON-IRRADIATED W ALLOYS	HIGHLIGHT MULTISCALE MODELING OF POLYMER SYSTEMS WITH INTERFACES	SIMULATION STRATEGIES FOR THERMOMECHANICAL DESIGN AND LIFETIME PREDICTION OF CRYOGENIC AUTOMOTIVE HYDROGEN PRESSURE VESSELS	WATER DROPLET BOUNCING, SPLASHING AND SPREADING ON BIOLOGICAL AND BIOMIMETIC SURFACES
17.30	Dr. D. Nguyen-Manh ¹ , Dr. J.S. Wrobel ² , Dr. M. Klimenkov ³ , Dr. S.L. Dudarev ¹	Aris Sgouros¹, DR Grigoris Megariotis¹, Apostolis Lakkas¹, Professor Doros Theodorou¹	Werner Lechner ¹ , Timo Christ ¹ , Caroline Wolff ² , Markus Neumeister ³ , Peter Bernst ⁴ , Martin Mahl ⁵ , <u>Jörg Hohe⁶</u>	Prof. Kerstin Koch [†]
	CCFE, United Kingdom Atomic Energy Authority, Abingdon, United Kingdom, 'Facutly of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland, 'Karlsruhe Institute of Technology, Karlsruhe, Germany	¹ School of Chemical Engineering, NTUA, Athens, Greece, Koropi, Greece	¹ BMW AG, München, Germany, ² DLR, Braunsch- weig, Germany, ³ IABG, Taufkirchen, Germany, ⁵ P-z Engineering GmbH, München, Germany, ⁵ Technische Universität München, Garching, Germany, ⁴ Fraunhofer IWM, Freiburg, Germany	'Rhine-Waal University of Applied Sciences, Kleve, Germany
	ORDERING PHENOMENA IN InGaN ALLOYS: AN AB-INITIO THERMODYNAMICS STUDY	FOCUS ON POLYMERS MATERIAL CHARACTERIZA- TION FOR SIMULATION OF AUTOMOTIVE PRODUCTS AT VALEO THERMAL SYSTEMS	ON THE THERMO-MECHANICAL BEHAVIOR OF POLYETHYLENE IN A HYDROGEN PRESSURE VESSEL USING A TEMPERATURE-DEPENDENT NON-ISOSENSITIVE MATERIAL MODEL	THE PECULIAR PROTEIN PACKING STRUCTURE OF BYSSUS FIBERS FROM THE FAN MUSSEL, PINNA NOBILIS
17.50	<u>Dr. Liverios Lymperakis¹</u> , Prof. Jörg Neugebauer¹	<u>Dr Peggy Havet</u> ¹ , Rodrigo Benevides ¹	Martin Mahl ¹ , Christopher Jelich ¹ , Horst Baier ¹	Delphine Pasche ¹ , Dr Matt Harrington ¹
	'Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf. Germany	Valeo Thermal Systems, Le Mesnil Saint Denis, France	Technische Universität München, Garching bei München, Germany	'Max Planck Istitute For Colloid And Interfaces, Potsdam-Golm, Germany
	EARLY STAGES OF PRECIPITATION IN ALUMINUM ALLOYS: AB-INITIO BASED ATOMISTIC MODELING	FRACTIONAL CALCULUS TO MODEL THE FUNCTION- AL PROPERTIES OF SHAPE-MEMORY-POLYMERS AT LARGE STRAINS	A THERMOMECHANICAL FATIGUE LIFE MODEL FOR METALLIC COMPONENTS OF CRYOGENIC HYDROGEN PRESSURE TANKS	CHARACTERIZATION OF THE MULTI-FUNCTIONALITY OF THE CANALICULAR NETWORK IN HUMAN BONE
18.10	Dr. Oleg Gorbatov ¹ , Dr. Andrey Stroev ¹² , Dr. Yuri Gornostyrev ¹² , Dr. Pavel Korzhavyi ^{2,3}	Dr. Ehsan Ghobadi ¹² , Axel Marquardt ³ , Elias Mahmoudine ² , Hod. Dr. Fathollah Varnik ⁴ , Dr. Klaus Neuking ³ , Prof. Dr. Gunther Eggeler ³ , Prof. Dr. Hoger Steeb ¹²	Philipp von Hartrott ¹ , Stefan Vorndran ¹ , Caroline Wolff ²	Alexander van Tol ¹ , Andreas Roschge ^{1,2} , Junning Chen ¹ , Felix Repp ¹ , Wolfgang Wagermaier ¹ , Philip Kollmannsberger ² , Paul Roschger ² , Peter Fratzl ¹ , Richard Weinkamer ¹
	Institute of Quantum Materials Science, Ekaterinburg, Russia, Institute of Metal Physics, Ekaterinburg, Russia, IKTH Rayal Institute of Technology, Stockholm, Sweden	¹ University of Stuttgart, 70569 Stuttgart, Germany, ² SimTech, 70569 Stuttgart, Germany, ² Institute for Materials, Ruhr-Universität Bochum, 44780 Bochum, Germany, ⁴ (LAMS, Ruhr-Universität Bochum, 44780 Bochum, Germany	¹ Fraunhofer IWM, Freiburg, Germany, ² German Aero- space Center (DLR), Braunschweig, Germany	"Max Planck Institute of Colloids and Interfaces, De- partment of Biomaterials, Potsdam, Germany, 'Ludwig Boltzmann Institute of Osteology at the Hanusch Hospital of WGKK and AUVI Trauma Centre Weidling, 1st Medical Department, Hanusch Hospital, Vienna, Austria, 'Center for Computational and Theoretical Biology, Universität Würzburg, Campus Hubland Nord 32, Würzburg, Germany
	AB INITIO STUDY OF THERMODYNAMIC AND MECHANICAL PROPERTIES OF N55Si3 ALLOYED WITH Ti	TWO-SCALE NUMERICAL MODELING OF CRACK SENSING IN POLYMERS USING CONDUCTIVE CNT NETWORKS	FATIGUE ANALYSIS OF A COOLING WATER HEAT EXCHANGER – FROM THE LOAD DATA GENERATION TO THE LIFE EXPECTANCY EVALUATION	SELF-ASSEMBLY OF COMPLEX HIERARCHICAL STRUCTURES IN TOUGH AND ADHESIVE MUSSEL BYSSAL THREADS
18.30	Dr loannis Papadimitriou', Dr Claire Utton', Prof. of Metallurgy and Posco Chair Prof. Panagiotis Tsakiropoulos¹	Prof. Konstantinos Tserpes ¹ , Mr. Christos Kora ¹	Mr Peter Bernst ¹ . Ms Monika Steinhauser ¹ . Dr Jan Reger ¹	Tobias Priemel ¹
	¹ The University Of Sheffield, Department of Materials Science and Engineering, Mappin Street. Sheffield S1 3JD, United Kingdom	¹ University of Patras, Patras, Greece	'ARRK, Munich. Germany	"Max Planck Institute of Colloids and Interfaces, Potsdam, Germany
	COHERENT HCP/BCC INTERFACES IN ZrNb ALLOYS	SELF-CONSISTENT FIELD MODEL OF INHOMOGENEOUS POLYMER SYSTEMS: SOLUTION BY THE FINITE ELEMENT METHOD	A CFRP MATERIAL MODEL ACCOUNTING FOR FATIGUE DAMAGE AND DEGRADATION	TREATMENT AND RECOVERY OF COCCOLITH PARTICLES FROM BIOGENIC SYSTEMS
18.50	Dr Maeva Cottura ¹² , Dr Emmanuel Clouet ¹	<u>Mr Apostolos Lakkas</u> ', Mr Aris Sgouros', Dr Grigorios Megariotis', Prof Doros Theodorou'	PD DrIng. Jörg Hohe', DrIng. Monika Gall', DrIng. Sascha Fliegener ¹ , MSc Zalikha Murni binti Abdul Hamid ¹²	Makrina Artemis Chairopoulou¹. DrIng. Utrich Teipel¹
	¹ SRMP, CEA Saclay, Gif-sur-Yvelte, France, ² Materials Science and Engineering, UC Berkeley, Berkeley, USA	¹ School of Chemical Engineering NTUA, Athens, Greece	¹ Fraunhofer IWM, Freiburg, Germany, ² Karlsruhe Institute of Technology, Karlsruhe, Germany	¹ TH Nürnberg Georg Simon Ohm, Nuremberg, Germany
			LIFETIME PREDICTION OF CRYO-COMPRESSED HYDROGEN (CcH2) STORAGE TANKS	SITE-SPECIFIC DIFFERENCES IN THE MINERALIZA- TION PROCESS IN HUMAN BONE
19.10			Caroline Wolff ¹ , DrIng. Janko Kreikemeier ¹	Dr. Andreas Roschger ¹² , Dr. Wolfgang Wagermaier ¹ , Dr. Sonja Gamsjaeger ² , Dr. Norbert Hassler ² , Dr. Ingo Schmidt ¹ , Dr. Stéphane Blouin ² , Dr. Richard Weinkamer ¹ , Dr. Paul Roschger ² , Dr. Eleftherios Paschalis ² , Prof. Klaus Klaushofer ² , Prof. Peter Fratzl ¹
			'German Aerospace Center (DLR), Braunschweig, Germany	'Max Planck Institute of Colloids and Interfaces, Department of Biomaterials, Potsdam, Germany, 'Ludwig Boltzmann Institute of Osteology at Hanusch Hospital of WGKK and AUVA Trauma Centre Meidling, I st Med. Dept. Hanusch Hospital, Vienna, Austria



Symposium	A1	A6	A7	А9
Room	3-21/M1	CR I Hall/M2	Rehearsal Room 5.17 /M1	I-11/M1
Session Title	Physical properties of nanocomposites	Space requirements, joining, additive	Deposition and nanostructuring assisted by ion and laser irradiation	Membranes for Ultra - and Nanofiltration
Chairperson	Michal Otyepka	George Vekinis	Vassilis Binas	Katja Loos
	HIGHLIGHT A COMPARATIVE STUDY ON THE ELECTRICAL PROPERTIES OF DIFFERENT FORMS OF CARBON ALLOTROPES/EPOXY NANOCOMPOSITES	AN OVERVIEW OF ENVIRONMENTAL EFFECTS ON SPACE MATERIALS — CHALLENGES AND OPPORTUNITIES	KEYNOTE/INVITED BI-BASED NANOSTRUCTURES PRODUCED BY LASER ABLATION AND THEIR FUNCTIONAL PROPERTIES TAILORED BY COMPLEX ENSEMBLES OF NANOSCALE PHASE/NANODOMAIN FLUCTUATIONS	FORMATION OF ISOPOROUS MEMBRANES FROM BLOCK COPOLYMERS IN FLAT SHEET AND HOLLOW FIBRE GEOMETRIES
11.00	Mr. Sotirios Stavropoulos ¹ , Mrs Aikaterini Sanida ¹ , Prof. Georgios Psarras ¹	Dr Christopher Semprimoschnig		Prof. Dr. Volker Abetz ¹ , Dr. Maryam Radjabian ¹ , Nazia Noor ¹ , Kirti Sankhala ¹ , Clarissa Abetz ¹ , Sofia Dami ¹ , Dr. Birgit Fischer ² , Dr. Andreas Meyer ²
	¹ Smart Materials and Nanodielectrics Laboratory, Department of Materials Science, School of Natural Sciences, University Of Patras, Patras, Greece	ESA (European Space Agency), Noordwijk, Netherlands	Prof. Maria Dinescu ¹ , Dr. Nicu Doinel Scarisoreanu ¹	¹ Helmholtz-Zentrum Geesthacht, Geesthacht, Germany, ² Universität Hamburg, Hamburg, Germany
	MECHANICAL PROPERTIES OF ELASTOMERIC POLYMER/CARBON BLACK NANOCOMPOSITES: EXPERIMENTAL STUDY AND MODELING	JOINING OF CFRP AND LOW-CTE GLASS-CERAMICS FOR AEROSPACE APPLICATIONS		HIGHLIGHT STIMULI-RESPONSIVE POLYMER-BASED ULTRAFILTRATION MEMBRANES
	<u>Dr Ahmed Mdarhri</u> ¹ , Fatiha ELHAOUZI ¹² , Ilham EL ABOUDI ¹ , Mustapha Zaghrioui ³ . A Nourdine ⁶⁵	Stefano De La Pierre ¹ , Muhammad Kashif Bangash ¹ , Monica Ferraris ¹		Prof. Dr. Mathias Ulbricht
11.20	Laboratoire de la Matière Condensée et des Nano- structures (LMCN), FSTG Université Codi Ayyad Av. A. Khatlabi, B.P. 549, Marrakech, Morocco, ² Laboratoire de Chimie Bio-organique et Macromoléculaire, FSTG Université Codi Ayyad Marrakech, Maroc, Marrokech, Marocco, ² Laboratoire GREMAN CNRS-UMR 7347, Université Françis Robelais, Tours, France, 4LEPMI, Université Françis Robelais, Tours, France, 4LEPMI, Université rançis Robelais, Tours, France, 4LEPMI, Chambery, France, 5LEPMI, CNRS, Grenoble F-38000, France	'Politecnico Di Torino, DISAT, Torino, Italy	'National Institute for Lasers, Plasma and Radiation Physics , Bucharest , Romania	'Lehrstuht Für Technische Chemie II. Universität Duisburg-Essen, Essen, Germany
	MECHANICAL AND TRIBOLOGICAL PROPERTIES OF CARBON NANOTUBE-YTTRIA-STABILIZED Z-02 NANO-COMPOSITES PREPARED BY SPARK PLASMA SINTERING	ADHESIVE BONDING FOR SPACE APPLICATIONS	ION-INDUCED BENDING OF GERMANIUM AND SILICON NANOWIRES AT HIGH TEMPERATURE	POLYARYLSULFONE-BASED ULTRAFILTRATION MEMBRANES WITH IMPROVED ANTI-FOULING AND SEPARATION PERFORMANCE BY TAILORED COPOLYMER ADDITIVES
11.40	Dr Alicia Weibel ¹ , Dr Anne Kasperski ¹ , Dr Dalya Alkattan ¹ , Dr Claude Estournès ¹ , Pr Christophe Laurent ¹ , Pr Alain Peigney ¹	MSc. Phd. Premysl Janik', MSc. Phd. Malgorzata Holynska ¹ , MSc. Phd. Christopher Semprimoschnig ¹	O Camara¹, Dr G Greaves¹, Dr R.W Harrison¹, M.A Tunes¹, Dr J.A. Hinks¹, I Hanif¹, Pr S.E Donnelly¹	Inga Stratmann¹, Linda Lempke¹, Mathias Ulbricht
	'Université de Toulouse, CIRIMAT, CNRS INPT UPS, Université Paul-Sabatier, 118 route de Narbonne, 31062 Toulouse cedex 9, France	'European Space Agency, Noordwijk, Netherlands	'School of Computing and Engineering, University of Huddersfield, Huddersfield, United Kingdom	'Lehrstuhl für Technische Chemie II, Universität Duisburg-Essen, Essen, Germany
	RESEARCH ON MECHANICAL AND ELECTRICAL PROPERTIES OF WIRES MADE FROM ALUMIN- IUM-GRAPHENE AND COPPER-GRAPHENE COMPOSITES	SANDWICH MATERIALS AND STRUCTURE: BREAKTHROUGH INNOVATION IN LIGHT AN STABLE SPACE STRUCTURES	OPTICAL SPECTROSCOPY STUDY OF NANO - AND MICROSTRUCTURES STRUCTURES INDUCED BY FEM- TOSECOND LASER PULSES ON ZNO BASED SYSTEMS	HIGHLIGHT OLIVE WASTE USED AS PORE GENERATOR IN ECOLOGICAL CERAMIC MEMBRANES
12.00	MSc Marek Gnietczyk¹, Prof. Tadeusz Knych¹, Prof. Beata Smyrak¹, MSc Bartosz Jurkiewicz¹, MSc Małgorzata Zasadzińska¹	Materials & Processes Manager OLIVIER DAMIANO ¹ . Materials and Processes specialist LAURENCE CORNILLON	Esther de Prado ^{1,3} , Dr Belén Sotillo ^{1,4} , Dr Camilo Florian ² , Professor Javier Solis ² , <u>Professor Paloma Fernández</u> ¹ , Dr Jan Siegel ²	Prof. Enrique Sánchez ¹ , Ms. M-Magdalena Lorente-Ayza ¹ , Dr. M-Carmen Bordes ¹ , Dr. Sergio Mestre ¹ , Ms. Elena Zuriaga ² , Mr. Ignacio Pastor ² , Ms. Beatriz Hernández ²
	'AGH-University Of Science and Technology, Kraków, Poland	¹ Thales Alenia Space, Cannes, France	"Dept. Física de Materiales, University Com- plutense, Madrid, Spain, "Instituto de óptica "Daza de Valdés", C.S.I.C., Madrid, Spain, "Dept. Física Aplicada y Electromagnetismo, University of Valencia, 46100 Burjasot, Spain, "IFN - CNR and Dipartimento di Física, Politecnico di Milano, Milano, Italy	'Chemical Engineering Dep., Instituto Universi- tario Tecnologia Cerámica, University Jaume I, Castellón, Spain, ² FACSA (Sociedad de Fomento Agricola Castellonense), Castellón, Spain
	PROPERTIES OF THE AL AND CU-GRAPHENE COMPOSITES PRODUCED BY HIGH PRESSURE TORSION	DEVELOPMENT OF LOW COST TITANIUM SPACECRAFT PROPELLANT TANKS	MULTI STEP GROWTH PROCESS OF MULTILAYERS BY GLANCING ANGLE DEPOSITION FOR ULTRA-HIGH PERFORMANCES ANTI-REFLECTIVE COATINGS	MESOPOROUS SILICA NANOPARTICLES AS TAILORED FILLERS FOR POLYAMIDE THIN-FILM COMPOSITE MEMBRANES
12.20	Prof. Pas Tomasz Czeppe¹, Prof Galia Korznikova², Prof Piotr Ozga¹, Dr Robert Socha³	<u>Dr Steve Dodds</u> ¹ , Dr Andrew Norman ² , Renato Bellarosa ³	Master Degree Florian Maudet ¹ , PhD Fabien Paumier ¹ , Professor Thierry Girardeau ¹	Ahmed Abdelsamad¹, Mathias Ulbricht¹
12.20	'Institute of Metallurgy And Materials Sciences Pas, Krakow, Poland, 'Institute for the Metals Superplas- ticity Problems, Russian Academy of Sciences, Ufa, Russia, 'Intitute of the Catalysis and Physical Prop- erties of the Surfaces, Polish Academy of Sciences, Krakow, Poland	"TWI Ltd. Cambridge, United Kingdom, ² Esa - ESTEC, Amsterdom, Netherlands, ³ Airbus Group, Stevenage, United Kingdom	Institut Pprime, Chassneuil-du-Poitou, France	¹ Lehrstuhl für Technische Chemie II, Universität Duisburg-Essen, Essen, Germany
	EFFECT OF CARBON NANOTUBES ON THE THERMAL STABILITY OF NANOCOMPOSITES		LARGE AREA ITO NANO-STRUCTURING VIA SELF-ORGANIZATION BY FEMTOSECOND-LASER IRRADIATION	HIGHLIGHT POLYELECTROLYTE MULTILAYERS FOR MULTIFUNCTIONAL NANOFILTRATION MEMBRANES
	Sónia Simões¹, Paulo J. Ferreira²², Filomena Viana¹, Marcos A. L. Reis⁴, Manuel F. Vieira¹		Dr. Daniel Puerto ¹ , Dr Maria del Carmen Lopez-San- tos ² , Dr. Camilo Florian ¹ , Dr. Jan Siegel ¹ , Dr. Jorge Gil-Rostra ² , Prof. Agustin R. Gonzalez-Elipe ² , Dr. Javier Solis ¹	Dr. Wiebe Matthijs De Vos¹
12.40	'CEMMPRE, Department Of Materials And Metal- lurgical Engineering, University Of Porto, Portugal, Porto, Portugal, *Materials Science and Engineer- ing Program, University of Texas at Austin, Austin, 1%, 78/12, USA, Austin, EUA, *International berian Nanotechnology Laboratory, Avenida Mestre José Veiga, 4715-330 Braga, Portugal, Braga, Portugal, *Faculdade de Ciências Exatas e Tecnologia, Universidade Federal do Pará, Abaetetuba, PA 68440-000 Brazil, Brazil		'Laser Processing Group, Instituto de Optica-CSIC, Madrid, Spain, [*] Nanotechnology of Surfaces Group, Instituto de Ciencia de Materiales-CSIC, Seville, Spain	'University Of Twente, Enschede, Netherlands



Symposium	B1	B2	В4	В7
Room	Maurice Saltiel Hall I/M2	Aimilios Riadis Hall/M2	3.20/M1	CR III Hall/M2
Session Title	Modelling Tools for Steel Design I	Magnesium: Corrosion and Oxidization	Multilayer and sheet materials	Defects Engineering and Catalytic Studies
Chairperson	llana Timokhina, Mark Rainforth	Xiaoqin Zheng	Enrico Bruder	Veronique Van Speybroeck
	APPLICATION OF THE THERMODYNAMIC EXTREMAL PRINCIPLE IN DIFFUSION-CONTROLLED PHASE TRANSFORMATIONS	HIGHLIGHT ACTIVE PROTECTION OF MG BY COATINGS WITH NOVEL CORROSION INHIBITORS	KEYNOTE/INVITED ANISOTROPY OF MECHANICAL AND FUNCTIONAL PROPERTIES IN SPD PROCESSED METALLIC MATERIALS	HIGHLIGHT MISSING LINKERS: AN ALTERNATIVE PATHWAY TO UIO-66 ELECTRONIC STRUCTURE ENGINEERING
11.00	<u>Wangwang Kuang</u> '. Haifeng Wang ¹	Prof. Mikhait Zhetudkevich¹, Dr. Sviatlana Lamaka¹, Dr. Daniet Hoeche¹, Dr. Carsten Blawert¹, Ms Yan Chen¹		Arthur De Vos¹, Kevin Hendrickx¹², Prof. Dr. Pascal Van Der Voort², Prof. Dr. Veronique Van Speybroeck¹, Dr. Kurt Lejaeghere¹
	¹ State Key Laboratory of Solidification Processing. Northwestern Polytechnical University, Xi an, Shaanxi. China	¹ Helmholtz-zentrum Geesthacht, Geesthacht, Germany	Ilchat Sabirov	Center for Molecular Modeling, Ghent University, Technologiepark 903, BE-9052 Zwijnaarde, Belgium, 20epartment of Inorganic and Physical Chemistry, Center for Ordered Materials, Organometallics and Catalysis, Ghent University, Krijgslaan 281-53, BE-9000 Ghent, Belgium
	AB-INITIO INVESTIGATION OF THE ROLE OF K CARBIDE IN UPGRADING Fe-Mn-AI-C ALLOY TO THE CLASS OF ADVANCED HIGH-STRENGTH STEELS	HIGHLIGHT INITIATION OF MAGNESIUM OXIDATION: A STUDY BY HIGH-RESOLUTION PHOTOEMISSION		EFFECT OF BENZOIC ACID AS MODULATOR IN UIO-66 STRUCTURE: AN EXPERIMENTAL AND COMPUTA- TIONAL STUDY
11.20	Dr. Poutumi Dey' , Ms. Mengji Yao', Dr. Martin Friák ^{2,3} , Dr. Tilmann Hickel ¹ , Prof. Dierk Raabe ¹ , Prof. Jörg Neugebauer ¹	Dr Sandra Gardonio ¹ , Dr Mattia Fanetti ¹ , Prof. Matjaz Valant ¹ , <u>Prof. Dmytro Ortov^{2,1}</u>		Mr. Cesare Atzori ¹ , Dr. Greig C. Shearer ² , Dr. Lorenzo Maschio ¹ , Prof. Bartolomeo Civalleri ¹ , Dr. Francesca Bonino ¹ , Prof. Carlo Lamberti ^{1,3} , Prof. Stian Svelle ² , Prof. Karl Petter Lillerud ² , Prof. Silvia Bordiga ¹²
	Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf, Germany, Institute of Physics of Materials, v.v.i., Academy of Sciences of the Czech Republic, Brno, Czech Republic, 'Central European Institute of Technology, CEITEC MU, Masaryk University, Brno, Czech Republic	¹ University of Nova Gorica, Nova Gorica, Slovenia, ² Lund University, Lund. Sweden	¹ IMDEA Materials Institute, Madrid, Spain	"Department of Chemistry, NIS and INSTM Reference Centre, University of Turin, Turin, Italy, "Department of Chemistry, University of Oslo, Oslo, Norway, "IRC "Smart Materials", Southern Federal University, Rostov-on-Don, Russia
	RELATIONS BETWEEN MICROSTRUCTURE AND STRENGTH FOR QUENCHED AND TEMPERED STEEL	THE EFFECT OF ALLOYING ELEMENTS ON MICROSTRUCTURE AND CORROSION BEHAVIOR OF WROUGHT Mg-AI ALLOYS	HIGHLIGHT HIGH STRENGTH MULTILAYERED METALLIC COMPOSITES	UNRAVELING THE BEHAVIOR OF UIO-66 DURING THE DEHYDRATION PROCESS AT ELEVATED TEMPERATURE
11.40	Dr Marius Gintalas ¹ , Dr Pedro Eduardo Jose Rive- ra-Díaz-del-Castillo ¹ , Dr Carlos Garcia-Mateo ² , Mr Miguel Angel Santajuana Aldea ²	<u>Polina Metalnikov</u> ¹² . Guy Ben-Hamu ²	Prof. Dr. Werner Skrotzki ¹ , Juliane Scharnweber ¹ , Dr. Paul Chekhonin ¹ , Dr. Carl-Georg Oertel ¹ , Dr. Jan Romberg ² , Prof. Dr. Jens Freudenberger ²	Julianna Hajek¹, Kristof De Wispelaere¹, Ruben Demuynck¹, Michel Waroquier¹, Veronique Van Speybroeck¹
	¹ The University Of Cambridge, Cambridge, United Kingdom, ² Spanish National Center for Metallurgical Research (CENIM-CSIC), Madrid, Spain	¹ Department of Material Engineering, Ben-Gurion University of the Negev, Be er-sheva 84105, Israel, ² Department of Mechanical Engineering, Sami Sha- moon College of Engineering, Ashdod 77245, Israel	¹ TU Dresden, Dresden, Germany, ² Leibniz-Institute for Solid State and Materials Research , Dresden, Germany	'Center for Molecular Modeling, Ghent University, Zwijnaarde, Belgium
	EFFECTS OF ALUMINUM ON HYDROGEN SOLUBILITY AND DIFFUSION IN DEFORMED Fe-Mn ALLOYS	EFFECT OF COMBINED ADDITION OF Ca AND Y ON THE CORROSION BEHAVIORS OF DIE-CAST AZ91 MAGNESIUM ALLOY	SHEAR INDUCED INTERFACE FORMATION OF AL-STEEL AND CU-STEEL MULTILAYERED COMPOSITE SHEETS	A NEW TI(IV)-BASED METAL-ORGANIC FRAMEWORK WITH TI-O CHAINS AS CATALYST FOR DIBENZOTHIO- PHENE OXIDATION
12.00	<u>Claas Hüter</u> ¹² , Siaufung Dang ¹ , Xie Zhang ² , Albert Glensk ² , Robert Spatschek ¹²	Sang Kyu Woo ¹ , Carsten Blawert ³ , Sang Bong Yi ³ , Chang Dong Yim ¹² , Young Min Kim ¹² , Bong Sun You ¹² , Nico Scharnagl ³ , Kiryl Yasakau ⁴	Dr. Anibal Mendes ¹ , Dr. Rimma Lapovok ¹ , Dr. Ilana Timokhina ¹ , Dr. Andrey Molotnikov ² , Dr. Peter Hodgson ¹	Simon Smolders¹, Dr. Bart Bueken¹, Prof. Dr. Maarten Roeffaers¹, Prof. Dr. Dirk De Vos¹
	¹ Forschungszentrum Jülich, Jülich, Germany, ² Max-Planck-Institut für Eisenforschung, Düsseldorf, Germany	¹ Korea University of Science and Technology, Daejeon, South Korea, ² Korea Institute of Materials Science, Changwon, South Korea, ³ Helmholtz-Zentrum Gees- thacht, Geesthacht, Germany, ⁴ University of Aveiro, Aveiro, Portugal	¹ FM-Deakin University, Melbourne, Australia, ² Monash University, Melbourne, Australia	¹ Centre for Surface Chemistry and Catalysis, KU Leuven, Belgium
	MODELING THE MECHANICAL BEHAVIOR OF TEMPERED MARTENSITE	IMPROVEMENT OF CORROSION RESISTANCE IN Mg-AL ALLOYS BY Ca AND Y ADDITION	DUCTILISATION OF TUNGSTEN (W) THROUGH COLD-ROLLING:CORRELATION OF MICROSTRUCTURE AND MECHANICAL PROPERTIES IN UFG-W SHEETS	COMPUTATIONAL MODELING OF MOF ADSORBENTS AND MEMBRANES FOR NOBLE GAS SEPARATIONS
12.20	Dr. Artem Arlazarov', Lívia Raquel C. Malheiros¹, Dr. Edgar Alejandro Pachon Rodriguez¹	Bong Sun You ¹ , Young Min Kim ¹	Simon Bonk ¹ , Dr. Andreas Hoffmann ² , Dr. Jan Hoff- mann ¹ , Ute Jäntsch ¹ , Dr. Michael Klimenkov ¹ , Dr. Michael Rieth ¹ , Dr. Jens Reiser ¹	Assoc. Prof. Seda Keskin ¹ . Ms. Zeynep Sumer ¹
	¹ ArcelorMittal Maizières Research SA, Maizières-lès-Metz Cedex, France	'Korea Institute Of Materials Science, Changwon, South Korea	'Karlsruhe Institute of Technology (KIT), Institute for Applied Materials — Applied Materials Physics, 76344 Eggenstein-Leopoldshafen, Germany, ² PLANSEE SE, 6600 Reutte, Austria	¹ Koc University, Istanbul, Turkey
	ORDERING OF CARBON IN HIGHLY SATURATED ALPHA-Fe		MECHANICAL PROPERTIES OF PARTICLE REIN- FORCED ULTRAFINE GRAINED TITANIUM SHEETS PRODUCED BY ACCUMULATIVE ROLL BONDING	THE EFFECT OF THE ACTIVATION CONDITIONS FOR TUNING THE PT ACTIVE SITES IN FUNCTIONALIZED UIO-67 MOF
	Osamu Waseda', Julien Morthomas'. Patrice Chantrenne', Chadwick Sinclair³, Fabienne Ribeiro², Michel Perez¹		Christopher Schunk ¹ , PD DrIng. habil. Heinz Werner Höppel, Prof. DrIng. Wolfgang Peukert, Prof. Dr. rer. nat. Mathias Göken	Luca Braqtia ^{1,2} , Etisa Borfecchia ¹ , Kirill A Lomachen- ko ^{2,3} , Alexander V. Soldatov ² , Bjørn-Tore Lønstad-Blek- en ⁵ , Sigurd Øien-Ødegaard ⁴ , Unni Olsbye ⁴ , Karl Petter Lillerud ⁴ , Sivia Bordiga ^{1,4} , Giovanni Agostini ^{2,5} , Maela Manzoli ² , Carlo Lamberti ^{2,7}
12.40	¹ Université de Lyan, INSA de Lyan, France. ² Institut de radioprotection et de sûreté nucléaire, France, ² University of British Columbia, Canada		'Friedrich-Alexander-University, Erlangen, Germany	"Department of Chemistry, NIS and INSTM Reference Centers, University of Turin, Turin, Italy, "IRC "Smart Materials". Southern Federal University, Rostov on Don, Russia, "European Synchrotron Radiation Facility Geronble, France," inGAP Centre for Research Based Innovation, Dols, Norway, "Leibniz Institute for Catalysis, University of Rostock (LIKAT), Rostock, Germany, "Department of Drug Science and Technology, NIS Interdepartmental Centre, University of Turin, Turin, Italy," Department of Chemistry, CrisDi Interdepartmental Centre and INSRM reference University of Turin, Turin, Italy.
13.00				POSTER TALKS (4X posters at 5 min each)

FINAL PROGRAM/FRIDAY/AM2



Symposium	c1	C3	C4	C5
Room	Friends of Music Hall/M1	Maurice Saltiel Hall III/M2	Conference Room 4/M1	Museum Hall /M2
Session Title	C1.3: Surface engineering and modifications 2/3 - Functionality I	SPS	Additive Manufacturing of metals 3	Infiltration
Chairperson	E. Aperathitis, R. Peng	Christophe Martin	Alberto Molinari	Natalia Sobczak, Vladimir Traskine
	EFFECT OF MICROSTRUCTURE FEATURES ON DLC DELAMINATION AND BLISTERING	KEYNOTE/INVITED COOL-SPS: SINTERING OF FRAGILE FERROIC MATERIALS AND BEYOND	INVESTIGATION OF THE IN-SITU ELABORATION OF ALLOYS BY SELECTIVE LASER MELTING OF MIXED ELEMENTAL POWDERS: APPLICATION TO A TI-26(AT.%)NB ALLOY	KEYNOTE/INVITED REACTIVE INFILTRATION: IDENTIFYING THE ROLE OF CHEMICAL REACTIONS, CAPILLARITY, VISCOSITY AND GRAVITY
11.00	Mr Antonios Choleridis ¹ , Dr. Christophe Héau ² , Dr. Marie-Alix Leroy ² , Dr. Vincent Barnier ¹ , Dr. Sergio Sao-Joao ¹ , Prof. Christophe Donnet ² , Prof. Helmut Klocker ¹		Marie Fischer ¹³ , Laurent Peltier ²³ , Gael Le Coz ^{1,3} , Pascal Laheurte ^{1,3}	
	'Univ Lyon, Mines Saint Etienne, Centre SMS/LGF UMR 5307, Saint Etienne, France, ² Univ Lyon, Université Jean Monnet, Laboratoire Hubert Curien UMR 5516, Saint Etienne, France, ³ Institut de Recherche en Ingénierie des Surfaces, Groupe HEF, France, Saint Etienne, France	Dr Michael Josse ¹ , Mr Thomas Hérisson de Beauvoir ¹ , Miss Anna Sangregorio ¹ , Mr Inaki Cornu ¹ , Mr Vincent Villemot ¹ , Dr Cathy Elissalde ¹ , Dr Dominique Michau ¹ , Dr U-Chan Chung-Seu ¹	'Université De Lorraine, Metz, France, ² Arts et Metiers, Metz, France, ³ LEM3, Metz, France	Phd Enrique Louis ¹ , PhD Juan Antonio Miralles ¹ , PhD José Miquel Molina ¹
	THERMOCHEMICAL HEAT STORAGE SYSTEMS WITH HONEYCOMB FILTER TYPE HEAT EXCHANGER SYSTEMS		ALLOY DESIGN FOR ADDITIVE MANUFACTURING: RAPID SOLIDIFICATION STUDIES ON CUSN AND CUSNTI ALLOYS	
11.20	Bengisu Yilmaz', Behiye Yüksel ² , Zafer Utlu ² , Prof. Dr. Gökhan Orhan ¹ , Saffa Riffat3, Hasila Jarimi ³	¹ University of Bordeaux, CNRS, ICMCB, Pessac, France	Xiaoshuang Li ¹ ² . Adriaan B. Spierings ³ , Prof. Dr Konrad Wegener ² , Dr. Christian Leinenbach ¹	
	¹Istanbul University, ²Istanbul Aydın University, ³Nottingham University		¹ Empa, Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland, ² ETH Zurich, Institute of Machine Tools and Manufacturing, Zurich, Switzerland, ³ Inspire AG, Innovation Center for Additive Manufacturing Switzerland, St. Gallen, Switzerland	'Universidad De Alicante, Alicante, Spain
	ANTIFOULING PROPERTIES OF PLASMA ELECTROLYTIC OXIDATION (PEO) COATED ALUMINUM ALLOYS TESTED IN SEAWATER	DENSE MOLYBDENUM PARTS WITH A CONTROLLED MICROSTRUCTURE PREPARED BY SPS	MACRO MICRO AND NANO HARDNESS AND MACRO AND NANO WEAR BEHAVIOR OF ALUMINUM ALLOYS BY LASER POWDER BED FUSION	CAPILLARITY IN PRESSURE INFILTRATION: INFLU- ENCE OF PERCOLATION AND WETTING ANGLE AT HIGH TEMPERATURE
11.40	Ing. Pietrogiovanni Cerchier', PhD Luca Pezzato¹, Ing. Claudio Gennari¹. Emanuela Moschin¹. prof. Isabella Moro¹, prof. Manuele Dabalà¹, prof. Maurizio Magrini¹	<u>Sylvain Lorand</u> ¹ , Foad NAIMI ¹ , Frédéric DEMOISSON ¹ , Hervé COUQUE ² , Frédéric BERNARD ¹	PhD Massimo Lorusso', M.Sc. Francesco Trevisan', M.Sc. Alberta Aversa', PhD Flaviana Calignano', PhD Elisa Ambrosio', Professor Matteo Pavesa', Professor Mariangela Lombardo', Professor Paolo Fino ¹² , PhD Diego Manfredi	Mr Gionata Schneider ¹ , Dr. Ludger Weber ¹ , Prof. Andreas Mortensen ¹
	¹ University Of Padova, Padova, Italy	¹ Laboratoire Interdiciplinaire Carnot de Bourgogne, UMR6303 CNRS-Université de Bourgogne-Franche- Comté, Dijon, France, ² Nexter Munition	¹Istituto Italiano Di Tecnologia, Torino, Italy, ²Politecnico di Torino, Torino, Italy	'EPFL-STI-IMX-LMM, Lausanne, Switzerland
	STUDY OF THE TRIBOCORROSION PROPERTIES OF PEO COATINGS PRODUCED ON AZ91 MAGNESIUM ALLOY	MICROSTRUCTURAL CHARACTERIZATION AND MODELLING OF THE DENSIFICATION MECHANISMS OF METALLIC SYSTEMS BY SPARK PLASMA SINTERING	IN-PROCESS PRECIPITATION STRENGTHENING DURING LASER METAL DEPOSITION OF ALUMINUM ALLOYS BY A13(Sc, Zr) NANO-PRECIPITATES	EFFECT OF SOLUBILITY AND CAPILLARITY DRIVEN KINETICS ON SINTERED MICROSTRUCTURE OF WC-Co ALLOYS
12.00	Ing. Luca Pezzato ¹ , Dragos Vranescu ¹ , Ing. Marco Sinico ² , Ing. Pietro Pranovi ² , Ing. Katya Brunelli ¹ , Prof. Manuele Dabalà ¹	Jean-Philippe Monchoux ¹ , Zofia Trzaska ¹ , Christophe Collard ¹ , Lise Durand ¹ , Alain Couret ¹ , Guillaume Bonnefont ² , Gilbert Fantozzi ² , Jean-Marc Chaix ³	Philipp Kürnsteiner ¹ , Markus Benjamin Wilms ² , Andreas Weisheit ² , Eric Aimé Jägle ¹ , Dierk Raabe ¹	M.Sc. Raphael Schiedung ¹ . Marvin Tegeler ¹ . Fathollah Varnik ¹
	'Università Di Padova, Padova, Italy, 'Ecor Research S.p.a., Schio (VI), Italy	¹ CEMES-CNRS UPR 8011. Toulouse, France, ² MATEIS-INSA, Lyon, France, ³ SIMAP, Grenoble, France	¹ Max-Planck-Institut für Eisenforschung, 40237 Düsseldorf, Germany, ² Fraunhofer-Institut für Lasert- echnik, 52074 Aachen, Germany	'Ruhr University Bochum, Bochum, Germany
	A POSSIBLE EXPLANATION FOR THE DELAY IN MICRO-DISCHARGES APPEARANCE DURING PEO OF AL	SPARK PLASMA SINTERING AND STRUCTURAL STUDY OF GRAPHENE NANOPLATELET REINFORCED CERAMIC COMPOSITES	ADDITIVE MANUFACTURING (AM) AS A RAPID SO- LIDIFICATION PROCESS: A STUDY ON AL-SI ALLOYS	WETTING AND JOINING OF SIC CERAMICS BY AI-TI ALLOYS
12.20	Julien Martin ¹² , Alexandre Nominé ² , Vitalios Ntom- prougkidis ¹ , Cédric Noël ¹ , Thierry Czerwiec ¹² , Thierry Belmonte ¹ , Gérard Henrion ¹²	<u>Phd Lili Nadaraia</u> '	Ms. Silvia Marola¹, Dr. Diego Manfredi², Dr. Gianluca Fiore¹, Dr. Marco Gabriele Poletti¹, Prof. Mariangela Lombardi², Prof. Paolo Fino³, <u>Prof. Livio Battezzati</u> ¹	Dr Fabrizio Valenza¹, Dr Valentina Casalegno², M.Sc Sofia Gambaro¹, M.Sc Maria Luigia Muolo¹, Dr Alberto Passerone¹, Prof Milena Salvo²
	'Institut Jean Lamour - UMR 7198 CNRS - Université de Lorraine, Nancy, France, 'LABoratory of EXcellence Design of Alloy Metals for low-mAss Structures LABEX DAMAS - Université de Lorraine, Metz, France, 'Depart- ment of physical sciences - The Open University, Milton Keynes, United Kingdom	¹ Georgian Technical University, Tbilisi, Georgia	'Università di Torino, Torino, Italy, ² Istituto Italiano di Tecnologia, Torino, Italy, ³ Politecnico di Torino, Torino, Italy	'National Research Council – Institute of Condensed Matter Chemistry and Technologies for Energy (CNR-ICMATE, Genoa, Italy, 'Politecnica di Torino, Department of Applied Science and Technology, Turin, Italy
	HYBRID COATINGS WITH CU-BASED NANOPAR- TICLES ON POLYMER AND STEEL SURFACES FOR BIO-FOULING CONTROL	SPARK PLASMA SINTERING (SPS): EVALUATION OF THE REPEATABILITY OF THE PROCESS TO ELABO- RATE TI-6AI-4V NEAR NET SHAPE (NNS) SPECIMENS	IMPACT OF RESIDUAL OXYGEN IN ARGON ATMO- SPHERE DURING LASER BEAM MELTING (LBM) ON THE MECHANICAL PROPERTIES OF AISI(Mg) AND Ti-6Al-4V	INTERFACIAL REACTIVITY IN THE AUSTI-SIC SYSTEM
12.40	Stavros Arvanitis¹, Theodora Karamanidou², Nikolaos Michailidis¹, Alexandros Tsouknidas², Dimitrios Tsipas²	Dr Ugras KUS¹, Dr Julitte HUEZ¹, Dr Denis DELAGNES², Master Geoffroy CHEVALLIER¹, <u>Dr Claude ESTOURNES</u> ¹	Kai Dietrich¹², Pierre Forêt¹, Dominik Bauer¹, Prof. DrIng. habil. Gerd Witt²	Sofia Gambaro¹, G. Cacciamani¹², F. Valenza¹, A. Passerone¹, M.L. Muolo¹, O. Dezellus³
	'Aristotle University Of Thessaloniki, Thessaloniki, Greece, 'PLiN Nanotechnology SA, Thermi, Greece	[†] CIRIMAT, Toulouse, France, ² ICA Mines Albi, Albi, France	'Linde AG, Munich, Germany, ² University Duisburg - Essen, Duisburg, Germany	Institute of Condensed Matter Chemistry and Technologies for Energy - National Research Council (ICMATE-CNR), Genova, Italy, "Department of Chemistry and Industrial Chemistry, University of Genova, Genova, Italy, "3 LM, Université Lyon 1, CNR, Villeurbanne Cedex, France
	TOWARDS THE PLASMONIC OPTICAL NANOPORE ON PYRAMID			
13.00	Professor Seong Soo Choi [†] , Professor Myoung Jin Park ² , Professor Doo Jae Park ⁴ , Professor Yong-Sang Kim ⁴ , Professor Chul Hee Han ⁴ , Professor Seh-Joong Oh ⁴ , Professor Soo Bong Choi ⁶ , Professor Namkyou Park ⁴			
	"Research Center For Nanobio Science, Sunmoon Univ., Chun An, South Korea, 'Korea Military Academy, Seoul, Souty Korea, 'Hallym University, Chuncheon, South Korea, 'Sungkyunkwan University, Suwon, South Ko- rea, [§] Inchon National University, Inchon, South Korea, 'Seoul National University, Seoul, South Korea			



Symposium	C8	C9	C10	C11
Room	Library Hall/M2	Conference Room 3/M1	F 319/M1	MOYSA Hall/M2
Session Title	General Interest	Material removal processes II	Microstructure stability, recrystallization and deformation behaviour	2D and organic materials and devices
Chairperson	Koulis Pericleous	Prof. Konstantinos-Dionyssios Bouzakis	M. Vedani and E. Gariboldi	Alain Claverie
	DISPERSION OF OXIDE NANO-PARTICLES IN LIQUID METAL MELTS USING CONTACTLESS ULTRASONIC CAVITATION AND ELECTROMAGNETIC STIRRING	KEYNOTE/INVITED CHALLENGES AND OPPORTUNITIES IN MACHINING DIFFICULT-TO-CUT ALLOYS UNDER SUSTAINABLE LUBRICATION AND COOLING CONDITIONS	HIGHLIGHT GRAIN BOUNDARY SEGREGATION IMPACTS STRENGTH AND ANNEALING BEHAVIOUR OF AN ULTRAFINE-GRAINED 316 STEEL	KEYNOTE/INVITED MOLECULAR BEAM EPITAXY OF TWO DIMENSIONAL MATERIALS FOR NANOELECTRONICS
11.00	Professor Koulis Pericleous ¹ , Professor Valdis Bojar- evics ¹ , Dr Bruno Lebon ¹ , Dr Anton Manoylov ¹		Dr Nariman Enikeev ^{1,2} , Marina Abramova ¹ , Prof Ruslan Valiev ^{1,2} , Dr Xavier Sauvage ³	
	'University of Greenwich, London, United Kingdom	Paolo C. Priarone ¹ , Matteo Robiglio ¹ , <u>Luca Settineri</u> ¹	Institute of Physics of Advanced Materials. Ufa State Aviation Technical University, Ufa, Russian Federation, *Research Loboratory for Mechanics of Bulk Nano- materials, Saint Petersburg State University, Saint Petersburg, Russian Federation, *Normandie Univ, UNIROUEN, INSA Rouen, CNRS, Groupe de Physique des Matériaux, Rouen, France	Dr. Ahanasios Dimoulas! ² , Dr. Polixronis Tsipas!, Dr. Dimitra Tsoutsou!, Mr. Sigiava Giamini!, Dr. Jose Marquez-Velasco¹, Dr. Carlos Alvarez², Dr. Hanako Okuno³, Dr. Gilles Renaud⁴
	MULTISCALE MODELLING OF DENDRITIC GROWTH BY A COMBINATION OF THREE METHODS		DYNAMIC TRANSFORMATION DURING THE SIMULATED PLATE ROLLING OF AN X70 PIPELINE STEEL	
11.20	Romain Fleurisson¹, Gildas Guillemot¹, Charles-André Gandin¹	¹ Politecnico Di Torino, Department of Management and Production Engineering, Torino, Italy	Mr. Samuel Rodrigues ¹² , Mr. Clodualdo Aranas Jr. ¹ , Mr. John Jonas ¹ , Mr. Fulvio Siciliano ³	INCSR Demokritos, Athens, Greece, ² LANEF Chair of Excellence, Univ. Grenoble Alpes and CEA, Grenoble, France, ³ CEA Minatec, Grenoble, France, ⁴ Univ. Grenoble Alpes and CEA, Grenoble, France
	'MINES ParisTech, PSL - Research University, CEMEF - Centre for material forming, CNRS UMR 7635, Sophia Antipolis, France		McGill University, Montreal, Canada, ² Federal Institute of Science, Education and Technology of Maranhão, São Luís, Brazil, ³ Dynamic Systems Inc., Poestenkill, United States of America	
	THE OPTIMIZATION OF GATING SYSTEM FOR CAST STEEL CASTINGS	STUDY OF RESIDUAL STRESS DISTRIBUTION NEAR THE HOLE EDGE IN AERONAUTICAL STRUCTURES AFTER DRILLING	RECRYSTALLIZATION PHENOMENA IN COLUMNAR AND EQUIAXED ZONE OF FERRITIC STAINLESS STEEL AND ITS EFFECT ON RIDGING PROPERTY	A LIFT-OFF METHOD FOR WAFER SCALE HETERO-STRUCTURING OF 2D MATERIALS
11.40	Dsc., PhD, University Professor Jan Jezierski ¹ , MSc., Eng. Rafał Dojka ¹ , Professor John Campbell ²	Yann Landon ¹ , Manuel Paredes ¹ , Clément Chirol ²	Pranabananda Modak ¹ , Sudipta Patra ¹ , Debalay Chakrabarti ¹	Mr. Nikos Aspiotis ¹ , <u>Mr. Omar Abbas</u> ¹ , Dr. Ioannis Zeimpekis ¹ , Dr. Sakellaris Mailis ¹ , Dr. Pier Sazio ¹ , Dr. Chung-Che Huang ¹ , Prof. Daniel Hewak ¹
	'Silesian University of Technology, Faculty of Mechan- ical Engineering, Department of Foundry Engineering, 44-100 Gliwice, Towarowa 7, Poland, 'Department of Metallurgy and Materials, University of Birmingham, Birmingham, United Kingdom	¹ Université de Toulouse - Institut Clément Ader (ICA), Toulouse, France, ² Airbus Operations S.A.S, Toulouse, France	'IIT Kharagpur, Kharagpur, India	¹ Optoelectronics Research Centre , University of Southampton, Southampton, United Kingdom
	PRODUCTION OF CARBON FIBERS REINFORCED AL-ALLOY MATRIX COMPOSITES	PROPOSAL OF 'PEEL CUTTING' FOR METALS WITH HARD OXIDE LAYER	MICROSTRUCTURE AND PROPERTIES OF ULTRAF- INE-GRAINED OR NANOCRYSTALLINE AUSTENITIC AND FERRITIC-MARTENSTIC STEELS PROCESSED BY ECAP OR HPT	AB-INITIO STUDY OF THE STABILITY AND GEOMETRY OF SMALL FRAGMENTS OF 2D GeSe AND THEIR EXCITATION ENERGIES
12.00	Anıl Alten¹, Dr. Gökçe Hapçı Ağaoğlu¹, Dr. Eray Erzi¹, Assoc. Prof. Derya Dışpınar¹, Prof. Dr. Gökhan Orhan¹	Dr. Eng. Eiji Shamoto ¹, Ikuya Onozato¹, Dr. Eng. Koichi Akazawa²	Research Assistant Professor Haiming Wen ¹²	Prof. Hariton Polatoglou ¹ , M.Sc. Giorgos Kymionakis ¹
	¹ Istanbul University	¹Nagoya University, Nagoya, Japan, ²Kobe Steel, Ltd., Kobe, Japan	Idaho State University, Idaho Falls, United States, Idaho National Laboratory, Idaho Falls, United States	¹ Aristotle Univ. Of Thessaloniki, Thessaloniki, Greece
	IN SITU CYCLING STABILITY EVALUATION IN AN ENCAPSULATED HIGH-TEMPERATURE PHASE CHANGE MATERIAL SYSTEM	A MULTI-PARAMETER EXPERIMENTAL AND STATISTICAL ANALYSIS OF SURFACE ROUGHNESS IN TURNING OF HIGH DENSITY POLYETHYLENE MATRIX METAL PARTICULATE COMPOSITE	MECHANICAL AND METALLOGRAPHIC OBSERVATION OF STEEL SPALL FRACTURE	LARGE AREA GRAPHENE FIELD-EFFECT TRANSISTORS WITH OPTIMIZED TRANSFER METHOD
12.20	Phd Candidate Selmar Binder ¹ , Professor Sophia Haussener ¹	Professor Nikolaos Vaxevanidis', Ing. (MSc) Nikolaos Fountas', Dipl-Ing. (MSc) George Seretis', Professor Christoforos Provatidis', Professor Dimitrios Manolakos ³	Doctor Sergey Plotnikov ¹ , Vladimir Oleshko ² , Amanzhol Turtybekuly ¹	Mr Panagiotis Karakolis ¹ , Mr Dimitrios Patros ¹ , Mr Markos Kokavesis ¹ , Mr Stavros Katsiaounis ² , Dr John Parthenios ² , <u>Dr Konstantinos Papagelis²,</u> Dr Vassilios Ioannou-Sougleridis ¹ , Dr Pascal Nor- mand ¹ 1 Panagiotis Dimitrakis ¹
	'Laboratory for Renewable Energy Science and Engineering, École Polytechnique Fédéral de Lausanne, Lausanne, Switzerland	*Laboratory of Manufacturing Processes and Machine Tools (LMProMaT), Department of Mechanical Engineering Educators, School of Pedagogical and Technological Education (ASPETE), Greece, *Section of Mechanical Design & Automatic Control. School of Mechanical Engineering, National Technical University of Athens (NTUA), Greece. *Section of Manufacturing Technology, School of Mechanical Engineering, National Technical University of Athens (NTUA), Greece	¹ D. Serikbayev East Kazakhstan State Technical University, Ust-kamenogorsk, Kazakhstan, ² Tomsk Politechnic University, Tomsk, Russia	¹ Institute Of Nanoscience And Nanotechnology-NCSR 'Demokritos', Aghio Paraskevi, Greece, ³ Institute of Chemical Engineering Sciences, Foundation for Research and Technology Hellas, Patras, Greece
		CREATING AND DEVELOPMENT AIRFLOW TEST CRITERIA FOR GAS TURBINE NOZZLES AND BLADES	OBSERVATION OF OXIDATION AND DECOMPOSITION PROCESSES IN NANOCRYSTALLINE ALLOYS	ENVIRONMENTAL ASSESSMENT OF BHJ ORGANIC PV TECHNOLOGY AS APPLIED TO A PORTABLE SOLAR CHARGER IN DIFFERENT EUROPEAN CONTEXTS
12.40		Senior Expert Hazhir Shahabbaspour ¹ . expert pouria Raissi	Mr Jinming Guo', Dr Julian Rosalie¹, Professor Reinhard Pippan¹, Dr Zaoli Zhang¹	Edis Glogic ¹² , Steffi Weyand ³ , Dr Michael Tsang ² , Dr Guido Sonnemann ³ , Dr Steven Young ³ , Dr Liselotte Schebek ³
		¹ Mapna Group, Tehran, Iran	¹ Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria	¹ University Of Waterloo, Waterloo, Canada, ² University of Bordeaux, Bordeaux, France, ³ Technische Universität Darmstadt, Darmstadt, Germany
13.00				

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FINAL PROGRAM/FRIDAY/AM2



Symposium	D1	D5	D6	D8
Room	Artist Cafe/M1	I-15/M1	I-08/M1	I -16/M1
Session Title	SPECTROMICROSCOPY & IMAGING	Precipitates and Alloy Design	"Multi-Length-Scale Innovations in Damage Evolution in Materials: Characterization, Modeling, and Validation"	Fundamental advances in ab initio methodology and applications
Chairperson	Andreas Stark and Gema Martinez Criado	Ingo Steinbach	Saryu Fensin	Liverios Lymperakis
	HIGHLIGHT TOWARDS AMBIENT PRESSURE IN THE CHARACTERIZATION OF MATERIALS AT THE MICRO- AND NANO-SCALE BY SCANNING PHOTOEMISSION IMAGING AND SPECTROMICROSCOPY	PRECIPITATE NUCLEATION IN HIGHLY SUPERSATURATED SOLID SOLUTIONS	KEYNOTE/INVITED RECENT ADVANCES IN QUANTIFYING INTERGRANULAR CORROSION DAMAGE ON AI ALLOYS	KEYNOTE/INVITED MODELLING STRUCTURAL MATERIALS IN REALISTIC ENVIRONMENTS BY AB INITIO THERMODYNAMICS
11.00	Matteo Amati ¹ , Hikmet Sezen ¹ , Luca Gregoratti ¹	Prof. Ernst Kozeschnik [†] . Prof. Bernhard Sonderegger ²		
	¹ Elettra-Sincrotrone Trieste, Strada Statale 14 - km 163,5 in AREA Science Park 34149, Trieste, Italy	¹ TU Wien, Institute of Materials Science and Technology, Wien, Austria, ² TU Graz, Institute of Materials Science, Joining and Forming, Graz, Austria	Bonzom Rémy ¹ . <u>Dr Roland Oltra</u> ¹ , Delfosse Jérome ²	Prof. Joerg Neugebauer', Dr. Tilmann Hickel', Dr. Blazej Grabowski'
	ULTRA-HIGH SPEED HARD X-RAY IMAGING AT ESRF: APPLICATIONS TO ENGINEERING MATERIALS	HIGHLIGHT PHASE FIELD MODELING OF DIFFUSION-LIMITED PRECIPITATION IN MULTI-COMPONENT NI-BASED SUPERALLOYS		
11.20	Dr. Margie Olbinado¹, Mr. Xavier Just², Dr. Jean-Louis Gelet³, Dr. Mario Schee(⁴, Dr. John Morse¹, Dr. Alexander Rack¹	Dr. Michael Fleck', Dr. Leslie T. Mushongera ² , M.Sc. Frank Querfurth ³ , M.Sc. Markus Thäter ⁴ , M.Sc. Philipp Amend ⁶ , Dr. Julia Kundin ¹ , Prof. Dr. Heike Emmerich ¹ , Prof. Dr. Uwe Glatzel ¹	[†] CNRS -Univ. Bourgogne, Dijon, France, [‡] AIRBUS Group Innovations, Suresnes, France	¹ Max-Planck-Institut fuer Eisenforschung, Duesseldorf, Germany
	¹ European Synchrotron Radiation Facility (ESRF), 38000 Grenoble, France, ² Université Grenoble Alpes - CNRS - SIMAP, 38000 Grenoble, France, ³ MERSEN France - SB, 69720 Saint Bonnet de Mure, France, ⁴ Synchrotron SOLEIL, 91192 Gif-sur-Yvette, France	¹ University Of Bayreuth, Bayreuth, Germany, ² Karl- sruher Intitute for Technology (KIT), Karlsruhe, Ger- many, ³ Teconsult preccion robotics GmbH, Bayreuth, Germany, ⁴ Rehau, Bayreuth, Germany, ⁵ AX-Lightness, Creußen, Germany		
	TOMOGRAPHIC COHERENT DIFFRACTION IMAGING AT THE ESRF BEAMLINE ID10	HIGHLIGHT NEW EXTENSIONS FOR THE EFFICIENT DEVELOPMENT OF CALPHAD-BASED ICME-TOOLS: DEVELOPMENT OF PROPERTY MODELS FOR MARTENSITIC STEELS	GRAIN BOUNDARY DIFFUSION OF IONS AND ELEC- Trons in a Hexagonal cell model	PHASE COMPOSITION AND THERMODYNAMIC PROPERTIES OF HIGH-ENTROPY ALLOYS FROM FIRST-PRINCIPLES MODELLING
11.40	<u>Dr Federico Zontone</u> ¹ , Dr Yuriy Chushkin ¹	DrIng. Ralf Rettig ¹ , Arun Kumar ¹ , Ph. D. Johan Jeppsson ¹ , Ph. D. Qing Chen ¹ , Ph. D. Johan Bratberg ¹ , Ph. D. Anders Engström ¹	Markus Tautschnig¹, Prof Nicholas Harrison¹, Prof Michael Finnis¹	Jan Wrobel ¹² , Duc Nguyen-Manh ² , Sergei Dudarev ² , Isaac Toda-Caraballo ³⁴ , Pedro Rivera-Diaz-del-Castil- lo ³ , Zhao Leong ⁴ , Russell Goodall ⁴ , Iain Todd ⁴ , Antonio Fernandez-Caballero ²⁵ , Krzysztof Kurzydlowski ¹
	¹ ESRF - The European Synchrotron, Grenoble, France	¹ThermoCalc Software AB, Solna, Sweden	[†] Imperial College London, London, United Kingdom	"Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland, "CCFE, UK Atomic Energy Authority, Abingdon, UK, "Department of Materials Science and Metallurgy, University of Cambridge, Cambridge, UK, "Upeartment of Materials Science and Engineering, University of Shefflield, Shefflield, UK, "School of Mechanical, Aerospace and Civil Engineering, University of Manchester, Manchester, UK, "Materalia Research Group, Department of Physical Metallurgy, Centro Nacional de Investigaciones Metalurgicas (CENIM-CSIC), Spain
	MEASUREMENT OF STRESS FIELD IN DEFORMED MATERIAL AT THE MICRON SCALE: COMBINING LAUE MICRODIFFRACTION WITH DIGITAL IMAGE CORRELATION, AND RELATED ACCURACY	SIMULATION OF THE BAINITE TRANSFORMATION IN ADVANCED HIGH-STRENGTH STEELS UNDER PARAEQUILIBRIUM DRIVING FORCES	THE AFFECT OF GRAIN SIZE ON DAMAGE AND FAILURE IN TWO-PHASE MATERIALS	Ni13Co3Mn13Sn3 HEUSLER ALLOY: INVESTIGATION FROM FIRST PRINCIPLES
12.00	<u>Dr Olivier Castelnau</u> ', Dr Fengguo Zhang', Dr Johann Petit ² , Dr Michel Bornert ³ , Dr Odile Robach ⁴ , Dr Jean-Sebastien Micha ⁴	<u>Dr Helen Kamoutsi</u> ¹, Konstantinos Psyridis¹, Dr Gregory Haidemenopoulos¹	<u>Dr. Saryu Fensin</u> ¹, Dr. David Jones¹, Dr. Ellen Cerreta¹, Daniel Martinez¹, Carl Trujillo¹, Dr. George Gray III¹	Professor Vasily Buchelnikov ¹ , Vladimir Sokolovskiy ¹ , Mikhail Zagrebin ¹
	¹ Laboratory PIMM (Arts & Metiers ParisTech / CNRS), Paris, France, ¹ LEME, Univ. Paris Quest, Ville d'Avray, France, ³ Laboratoire Navier (ENPC/IFSTTAR/CNRS), Marne (a Vallee, France, [*] CEA and CRG-IF BM32 at ESRF, Grenoble, France	'Uth, Volos, Greece	¹ Los Alamos National Laboratory, Los Alamos, United States	'Chelyabinsk State University, Chelyabinsk, Russian Federation
	MICROSTRUCTURE EVOLUTION DURING FAST COOLING STUDIED BY IN SITU X-RAY TECHNIQUES	ALLOY DESIGN OF MEDIUM-MN STEELS BASED ON COMPUTATIONAL THERMODYNAMICS AND MULTI-OBJECTIVE OPTIMIZATION	MULTI-WAVELENGTH RAMAN MICROSCOPY: A SUITABLE TOOL FOR CHARACTERIZING SURFACES IN INTERACTION WITH PLASMAS IN THE FIELD OF NUCLEAR FUSION	TENSORIAL ELASTIC PROPERTIES AND STABILITY OF INTERFACE STATES ASSOCIATED WITH \$5(210) GRAIN BOUNDARIES IN NI3(AL,SI)
12.20	Helena Van Swygenhoven ¹ , Steven Van Petegem ¹	Mr. John Aristeidakis¹. Professor Greg Haide- menopoulos¹	Cedric Pardanaud ¹ , C. Martin ¹ , P. Roubin ¹	Dr. Martin Friak ¹² , Dr. Monika Vsianska ²¹ , Associated Professor David Holec ³ , Professor Mojmir Sob ^{2,1,4}
	¹ Paul Scherrer Institut, Switzerland	¹ University Of Thessaly, Volos, Greece	¹Aix-marseille Université, Marseille, France	'Institute of Physics of Materials, Academy of Sciences of the Czech Republic, Brno, Czech Republic, 'Central European Institute of Technology, CEITEC MU, Masaryk University, Brno, Czech Republic, 'Department of Physical Metallurgy and Materials Testing, Montanuniversitaet Leoben, Leoben, Austria, 'Department of Chemistry, Faculty of Science, Masaryk University, Brno, Czech Republic
		A MULTI-SCALE FE-FFT APPROACH TO STUDY MICROSTRUCTURAL EVOLUTION DURING BIAXIAL STRAIN PATH CHANGES OF SHEET METALS AND ALLOYS	STRUCTURE / PROPERTY (CONSTITUTIVE AND DY- NAMIC STRENGTH / DAMAGE) CHARACTERIZATION OF ADDITIVELY MANUFACTURED (AM) TANTALUM	PLANAR DEFECTS IN NI AND Co BASED SUPERALLOYS
12.40		Dr. Manas V Upadhyay ¹ , Dr. Steven Van Petegem ¹ , Dr. Tobias Panzner ² , Dr. Anirban Patra ³ , Dr. Wei Wen ³ , Dr. Ricardo A Lebensohn ³ , Dr. Carlos Tome ³ , Prof. Dr. Helena Van Swygenhoven ^{1,4}	Dr. George Gray ¹ , Ms. Veronica Livescu ¹ , Mr. Cameron Knapp ¹ , Mr. Carl Trujillo ¹ , Mr. Daniel Martinez ¹ , Ms. Roberta Beal ¹ , Dr. David Jones ¹	Aparna Subramanyam ¹ , Dr. Thomas Hammer- schmidt ¹ , Prof. Dr. Ralf Drautz ¹
		Swiss Light Source, Paul Scherrer Institute, Villigen PSI. Switzerland. *Laboratory for neutron scattering, Paul Scherrer Institute, Villigen PSI. Switzerland, MST-8. Los Alamos National Laboratory, Los Alamos, USA. *Neutrons and X-rays for Mechanics of Materials, MX, Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland	¹ Los Alamos National Laboratory, Los Alamos, United States	'ICAMS. Ruhr-University Bochum, Bochum, Germany
				ELECTRONIC ORIGIN AND STRUCTURAL INSTABILITIES OF TI-BASED ALLOYS FOR ORTHOPAEDIC IMPLANTS
13.00				Accos Prof Christina Lekka , Dr J.J. Gutierrez-Moreno ² , Prof Mariana Calin ³
				'University Of Ioannina, Ioannina, Greece, ⁻ Tyndall National Institute, Cork, Ireland, ³ IFW Dresden, Dresden, Germany



Symposium	D10	E6	F5	F6
Room	CR II Hall/M2	Maurice Saltiel Hall II/M2	Conference Room 1/M1	Conference Room 2/M1
Session Title	Segregation	Modeling, Simulation and Optimization	"Translation of biomaterials research towards innovation and product development: from concepts to clinic"	Structural properties of bio-inspired materials
Chairperson	Schuler-Luca Messina	Kayvantash	Jérôme CHEVALIER	Richard Weinkamer
	HIGHLIGHT MOLECULAR DYNAMICS AND MONTE CARLO COUPLING FRAMEWORK FOR SOLUTE SEGREGATION MODELING USING DIFFERENT PARALLELIZATION APPROACHES	EUROPEAN MATERIALS MODELLING COUNCIL	HIGHLIGHT HYBRID COLLAGEN/APATITE SCAFFOLDS OBTAINED BY BIO-INSPIRED MINERALIZATION PROCESS RE- GENERATING BONE AND OSTEOCHONDRAL TISSUES	FIELD ASSISTED SINTERING AND MECHANICAL PROPERTIES OF BIOINSPIRED CERAMIC/METAL LAMINATED COMPOSITES
11.00	M.Sc Hariprasath Ganesan ¹ , Dr. Carlos Teijeiro ¹ , Prof. Dr. Godehard Sutmann ^{1,2}	Dr. Nadja Adamovic ¹	Phd Anna Tampieri ¹ , PhD Monica Sandri ¹ , PhD Simone Sprio ¹ , M.Sc. Elisabetta Campodoni ¹	Malgorzata Marcinkowska ¹² . <u>Sylvain Meille</u> ¹ , Eric Maire ¹ , Jérôme Chevalier ¹ , Sylvain Deville ²
	Interdisciplinary Centre for Advanced Materials Simulation (ICAMS), Ruhr-University Bochum, Bochum, Germany, Ziulich Supercomputing Centre (JSC), Institute for Advanced Simulation (IAS), Forschungszentrum Jülich, Jülich, Germany	¹ Vienna University of Technology, Institute of Sensor and Actuator systems		
	MONTE CARLO STUDY OF INTERSTITIAL DIFFUSION IN THE PRESENCE OF SOLUTE ATOM TRAPS	THE CHALLENGE OF REVERSING THEORIES TO HYBRIDIZE STRUCTURES WITH FIBRE METAL LAMINATES	ANTIMICROBIAL COPPER-BASED ALLOYS TOUCH SURFACES — CURRENT ACHIEVEMENTS AND CHALLENGES	HOW DOES THE COORDINATION OF CROSS-LINKS INFLUENCE THE MECHANICAL BEHAVIOR OF A LINEAR POLYMER CHAIN?
11.20	Yao V Shan ¹ , Ernst Kozeschnik ¹	<u>Dr.ir. René Alderliesten</u> '	PhD Monika Walkowicz ¹ , PhD Piotr Osuch ¹ , Prof. Beata Smyrak ¹ , Prof. Andrzej Mamala ¹ , Prof. Tadeusz Knych ¹ , PhD Anna Rozanska ² , PhD Agnieszka Chmielarczyk ² , MSC Dorota Romaniszyn ² , Prof. Malgorzata Bulanda ²	M.sc Huzaifa Shabbir ¹ , <u>Habil Markus Hartmann</u> ¹
	'Institute of Materials Science and Technology, TU Wien, Vienna, Austria	[†] Delft University Of Technology, Delft, Netherlands	AGH University of Science and Technology, Faculty of Non-Ferrous Metals, Department of Metal Working and Physical Metallury of Non-Ferrous Metals, Krakow, Poland, Jagaiellonian University Medical College, Facul- ty of Medicine, Department of Microbiology, Krakow	'University Of Vienna, Vienna, Austria
	MODELING AND EXPERIMENTAL INVESTIGATION OF COPPER PRECIPITATION IN CAST IRON FOR NUCLEAR SPENT-FUEL CANISTERS	A MULTI-AGENT SYSTEM BASED APPROACH FOR ADAPTIVE PROPERTY CONTROL IN SMART LOAD-BEARING STRUCTURES	WEAR STUDY OF TOTAL ANKLE REPLACEMENT EXPLANTS BY MICROSTRUCTURAL ANALYSIS	MULTIRESPONSIVE AND MULTISTRUCTURED BACTERIAL CELLULOSE NANOCOMPOSITES
11.40	Dr Luca Messina', Prof. Pär Olsson ² , Dr Zhongwen Chang ² , Dr Nils Sandberg ² , M.S. Elin Toijer ² , Amine Yousfi ³ , Mattias Thuvander ³ , Bruno Boizot ⁴ , Gauthier Brysbaert ⁴ , Vincent Metayer ⁴ , Dominique Gorse-Pomonti ⁴	DrIng, Dirk Lehmhus ¹ , Dr. Stefan Bosse ¹ , <u>Atra Gemilang</u> ¹ , Prof. DrIng, Matthias Busse ²	Prof. Damien Fabregue ¹ , Sandrine Cottrino ¹ , Arthur Per Cowie ¹ , Jean-Luc BESSE ² , Daniel Hartmann ¹ , Solène Tadier ¹ , Laurent Gremillard ¹	Muling Zeng ¹ , Anna Roig ¹ , Irene Anton ¹ , Maria Milla ¹ , Deyaa Youseff ¹ , Jordi Floriach-Clark ¹ , Anna May ¹ , Anna Roig ¹ , <u>Anna Laromaine</u> ¹
	CEA Saclay, Gif-sur-Yvette, France. 'KTH Royal Institute of Technology, Stockholm, Sweden, 'Chalmers University of Technology, Göteborg, Sweden, 'CNRS-LSI Ecole Polytechnique, Palaiseau, France	¹ University Of Bremen, Bremen, Germany, ² Fraunhofer Institute for Manufacturing Technology and Advanced Materials (IFAM), Bremen, Germany	'Mateis Insa Lyon, Villeurbanne, France, ² Hospices Civils de Lyon, Lyon, France	'Institut de Ciència de Materials de Barcelona, ICMAB-CSIC, Campus UAB. 08193 Bellaterra, Barcelona - Spain, Spain
	CLUSTER EXPANSION OF THE ONSAGER MATRIX FOR DILUTE SOLID SOLUTIONS: APPLICATION TO DIFFUSION IN Fe-(C, N, 0) SOLID SOLUTIONS	WOVEN LATTICE MATERIAL (WLM) WITH INCREASING DAMPING AT HIGH FREQUENCIES	HIGHLIGHT FABRICATION OF HYDROXYAPATITE CRANIAL IMPLANTS BY STEREOLITHOGRAPHY, CLINICAL STUDY OF 19 PATIENTS OVER 12 YEARS.	NATURE INSPIRES INNOVATIVE PROCESSES FOR SMART BIOMIMETIC DEVICES
12.00	Dr. Thomas Schuler ¹² , Dr. Maylise Nastar ² , Dr. Luca Messina ²	Dr Ladan Salari ² , Dr Stephen Ryan ³ , Manuel Pelacci ¹ , Prof Lorenzo Valdevit ² , <u>Dr Stefan Szyniszewski¹</u>	Mr Christophe Chaput ¹ , Pr Thierry Chartier ² , Pr Joel Brie ³ , Dr Julie Usseglio ³	Phd Anna Tampieri ¹ , <u>PhD Simone Sprio</u> ¹ , PhD Monica Sandri ¹ , PhD Silvia Panseri ¹ , PhD Monica Montesi ¹ , PhD Michele lafisco ¹ , PhD Alessio Adamiano ¹
	l'École Nationale Supérieure des Mines de Saint-Éti- enne, 42023 Saint Etienne, France, [†] DEN-Service de Recherches de Métallurgie Physique, CEA, Université Paris-Saclay, F-91191 Gif-sur-Yvette, France	¹ University Of Surrey, Guildford, United Kingdom, ² University of California, Irvine, United States, ³ Johns Hopkins University, Baltimore, United States	¹ 3dceram, Limoges, France, ² SPCTS - CNRS, Limoges, France, ³ Limoges hospital (CHRU), Limoges, France	'Institute Of Science And Technology For Ceramics, National Research Council, Faenza, Italy
		FLEXURAL AND SHEAR PROPERTIES OF REDUCED GRAPHENE OXIDE/EPOXY REINFORCED CARBON FIBRE HYBRID COMPOSITES	CHALLENGES IN SCALING UP ZIRCONIA BASED— COMPOSITES PROCESSING: FROM THE DEVELOP- MENT OF A MICROSTRUCTURE AT THE LABORATORY SCALE TO AN EFFECTIVE INDUSTRIAL PRODUCTION	MIMICKING HELICOIDAL BIOLOGICAL MATERIALS TO IMPROVE STRENGTH OF SYNTHETIC COMPOSITES
12.20		Paddy Jenkins ¹ , Stuart Ingram ¹ , Samrin Khan ² , Kristof Starost ¹ , Pravin Bari ² , Satyendra Mishra ² , <u>James Njuguna¹</u>	Dr Helen Reveron', Dr Fei Zhang', Dr Marta Fornabaio ² , Dr Paola Palmero ² , Dr Laura Montanaro ² , Dr Tobias Fürderer ² , Dr Nicolas Courtois ⁴ , Dr Jérôme Chevalier ¹	MSc Laura Zorzetto ¹ , Dr. Jean-Michel Thomassin ² , Dr. Christine Jérôme ² , Dr. Davide Ruffoni ¹
12.20		[†] Centre for Advanced Engineering Materials, School of Engineering, Robert Gordon University, Aberdeen, AB10 76J. UK, [‡] University Institute of Chemical Technology, North Maharashtra University, Jalgaon-425001 Maharashtra, India	Université de Lyon-INSA de Lyon, MATEIS CNRS UMR 5510, 20 Avenue Albert Einstein, F-69621 Villeurbanne Cedex, France, 'Department of Applied Science and Technolagy, INSTM R.U. Politō LINCE Lab., Politecnico di Torino, Corso Duca degli Abruzzi. 24, 10129 Torino, Italy, 'DOCERAM, MOESCHTER GROUP Holding 6mbH & Co. KG. Hesslingsweg 65 - 67, 44309 Dortmund, Germany, 'Atthogyr SAS, 237 avenue A. Lasquin, F-74700 Sallanches, France	Department of Aerospace and Mechanical Engineer- ing, Mechanics of Biological and Bio-inspired Materials Research Unit, University of Liege. Liege, Belgium, Department of Chemistry, Center for Education and Research on Macromolecules, University of Liege, Liege, Belgium
			MECHANICAL ASSESMENT OF A NEW LONG LASTING ZIRCONIA BASED-COMPOSITE: FROM SIMPLE LABSCALE SAMPLES TO REAL DENTAL IMPLANTS CHARACTERIZATION	GROWTH AND SELF-HEALING OF BIOINSPIRED MATERIALS SIMULATED THROUGH A HIERARCHICAL LATTICE SPRING MODEL
12.40			Alethea Liens ¹ , PhD Helen Reveron ¹ , PhD Pascal Rey- naud ¹ , PhD Tobias Fuerderer ² , PhD Nicolas Courtois ³ , Professor Jérôme Chevalier ¹	Federico Bosia¹, Lucas Brely¹, Nicola Pugno ^{2,3,4}
			¹ Mateis Laboratory Insa Lyon, Lyon, France, ² DOCERAM MOESCHTER GROUP Holding GmbH & Co KG, Dortmund, Germany, ³ Anthogyr SAS, Sallanches, France	¹ University of Torino. Torino, Italy, ² University of Trento, Trento, Italy, ² Queen Mary University, London, London, United Kingdom, ⁴ Italian Space Agency, Roma, Italy
				A COMPARISON OF NETTLE FIBERS WITH FLAX IN A FLOREON MODIFIED PLA MATRIX
13.00				Miss Stella Manoli¹
				'University Of Sheffield, Sheffield, United Kingdom

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Symposium	A1	A1(parallel session)	A6	A9
Room	3-21/M1	Rehearsal Room 5.17 /M1	CR I Hall/M2	I-11/M1
Session Title	Thin layers-Inks-Intercalation	Functionnalization and gas sensing	Structure, mechanical, propulsion, pyrotechnics	Membranes for Gas Separation
Chairperson	Matteo Palma	Sotirios Stavropoulos	Ethiraj Venkatapathy	Volker Abetz
	HIGHLIGHT THE ROLE OF GRAPHENE IN COPPER OXIDATION: PROTECTING OR ENHANCING AGENT?	HIGHLIGHT COVALENT FUNCTIONALIZATION OF GRAPHENE ACHIEVED VIA CHEMISTRY OF FLUOROGRAPHENE	THE DELETERIOUS EFFECTS OF TIN WHISKER GROWTHS ON SPACECRAFT ELECTRONICS AND MITIGATION PROCESSES THAT INCLUDE ADVANCED MATERIALS	BIOMASS DERIVED FEEDSTOCK FOR POROUS CARBONACEOUS FRAMEWORKS
15.00	Prof. Alicia De Andrés ¹ , Leo Álvarez-Fraga ¹ , Dr Juan Rubio-Zuazo ² , Dr Felix Jiménez-Villacorta ¹ , Dr Esteban Climent-Pascual ¹ , Dr Javier Bartolomé-Vilchez ¹ , Dr Rafael Ramírez-Jiménez ^{3,1} , Prof. Carlos Prieto ¹	Prof. Michal Otyepka ¹ , Dr. Aristides Bakandritsos ¹ , Dr. Piotr Blonski ¹ , Dr. Demetrios Chronopoulos ¹ , Dr. Petr Lazar ¹ , Dr. Radek Zbořil ¹	Professor Barrie Dunn'	<u>Pierluigi Tosi</u> ¹ . Dr Ed de Jong ² . Associate Professor Alice Mija ¹
	¹Consejo Superior De Investigaciones Científicas, Instituto de Ciencia de Materiales de Madrid, Cantoblanco 28049, Madrid, Spain, ²BM25-SpLine ESRF, 38043, Grenoble, France, ¹Departamento de Física, Escuela Politécnica Superior, Universidad Carlos III de Madrid, Avenida Universidad 30, 28911, Leganés, Spain	¹ Palacký University Olomouc, Olomouc, Czech Republic	¹ University of Portsmouth, Portsmouth, United Kingdom	¹ University of Nice Sophia Antipolis, ICN, Nice, France, ² Avantium Chemicals B.V, Avantium, The Netherlands
	GRAPHENE NANOPLATELET BASED ADHESIVES FOR SECONDARY STRUCTURAL APPLICATIONS	CYANOGRAPHENE AND GRAPHENE-ACID: TWO HIGHLY FUNCTIONALIZED AND CONDUCTIVE GRAPHENE DERIVATIVES FROM FLUOROGRAPHITE	MULTI-LAYERED CERAMIC COMPOSITES FOR A SMALL ROCKET COMBUSTION CHAMBER	ADVANCED COMPOSITE MEMBRANES WITH LAYERED FILLERS FOR GAS SEPARATION
15.20	Dr. Stavros Tsantzalis¹, Dr. Christina Kostagianna- kopoulou¹, Dr. Katerina Kouravelou², Dr. Antonios Vavouliotis²², Dr. Athanasios Baltopoulos², Prof. Vassilis Kostopoulos¹, Dr. Ugo Lafont³	PhD Aristeidis Bakandritsos¹, PhD Martin Pykal¹, PhD Piotr Blonski¹, PhD Petr Jakubec¹, PhD Demetrios Chronopoulos¹, PhD Vasileios Georgakilas², PhD Kateřina Poláková¹, PhD Athanasios Bourlinos¹³, PhD Václav Ranc¹, PhD Klára Čepe¹, PhD Radek Zboříl¹, PhD Michal Otyepka¹	Dr Amalia Marinou'. <u>Dr George Vekinis'</u>	<u>Dr Dan Zhao</u> ¹
	¹ University of Patras. Rio. Patras. Greece. ² Adamant Composites, Platani Patras. Greece. ³ ESA - TEC - OEE, Noordwijk, The Nederlands, ⁴ Pleione Energy, Ag Paraskevi, Attica, Greece	¹ Regional Centre for Advanced Technologies and Materials, Department of Physical Chemistry, Faculty of Science, Palacky University in Otomouc, 17.listopadu, Otomouc, Czech Republic, ² Department of Materials Science, University of Patras, Patras, Greece, ³ Physics Department, University of Ioannina, Ioannina, Greece	[†] Institute of Nanoscience and Nanotechnology, NCSR [*] Demokritos", Agia Paraskevi Attikis, Greece	'National University Of Singapore, Singapore
	PREPARATION OF FEW LAYERS GRAPHENE DISPERSIONS AS PIGMENTS FOR CONDUCTIVE PAINTS	GAS SENSING PROPERTIES OF FLUORINATED CARBON NANOTUBES	STRESS CORROSION CRACKING BEHAVIOUR AND MICROSTRUCTURAL CHARACTERISTICS OF AL-STEEL WELDS FOR SPACE PROPULSION SYSTEMS	INCREASING THE SELECTIVITY OF POLYMERS OF INTRINSIC MICROPOROSITY BY COMPETITIVE SORPTION
15.40	Dr KATERINA KAMPIOTI!, Fernando Torres-Canas!, Wilfrid Neni ¹ , Alain Penicaud ¹ , Philippe Poulin ¹	Ms. Claudia Struzzi ¹ , Dr. Mattia Scardamaglia ¹ , Mr. Juan Casanova Chafer ² , Dr. Nikolay Britun ¹ , Dr. Jean-François Colomer ² , Prof. Rony Snyders ¹ , Prof. Eduard Llobel ² , Dr. Carla Bittencourt ¹	Dipl.Ing. Grazyna Mozdzen ¹ , Dr. Michael Scheerer ¹ , Dr. Andreas Tesch ² , Dr. Martin Stubenrauch ² , Dr. Jan Persson ²	Dr. Alessio Fuoco ¹ , Dr Bekir Satilmis ^{2,3} , Ms Carmen Rizzuto ¹ , Dr Marcello Monteleone ¹ , Dr Elisa Esposito ¹ , Dr Elena Tocci ¹ , Dr Lidietta Giorno ¹ , Prof Peter M. Budd ² , <u>Dr Johannes C. Jansen</u> ¹
	'Centre de Recherche Paul Pascal/CNRS, Université de Bordeaux, Pessac, France	'Université de Mons, Mons, Belgium, 'Universitat Rovira i Virgili, Tarragona, Spain, 'Université de Namur, Namur, Belgium	'AAC GmbH, Wiener Neustadt, Austria. ² ESA (ESTEC), Noordwijk. The Netherlands, ³ Magna-Steyer Engineer- ing AG & Co KG, Graz, Austria	'Institute on Membrane Technology (ITM -CNR), Rende, Italy, 'School of Chemistry, University of Manchester, Manchester, United Kingdom, 'Department of Chemis- try, Faculty of Science and Arts, Ahi Evran University, Kirsehir, Turkey
	HIGH PERMITTIVITY STRUCTURES PREPARED BY INKJET PRINTING FOR ENERGY STORAGE AND HARVESTING PRESENTING AUTHOR	EFFECT OF STABILIZATION TEMPERATURE ON MICROPOROSITY AND CO ₂ ADSORPTION IN CARBON FIBERS	ADVANCED ALUMINIUM ALLOYS FOR CRYO-RESERVOIR APPLICATIONS	THE COUPLING TECHNOLOGY OF CO. UTILIZATION AND METHANE CONVERSION USING DUAL-PHASE OXYGEN TRANSPORT MEMBRANE
16.00	<u>Fernando TORRES-CANAS</u> ', Jinkai Yuan', Wilfrid Neri', Annie Colin', Philippe Poulin'	PhD Student Reyna Ojeda López¹, PhD J. Marcos Esparza-Schulz¹, PhD Guadalupe Ramos-Sánchez¹, PhD student Isaac J. Pérez-Hermosillo¹, PhD Armando Domínguez-Ortiz¹	<u>Dr Andy Norman</u> ¹ , Dr G Mozdzen ² , Dr V Liedtke ²	Joo Jong Hoon ¹ , <u>Park Jeong Hwan</u> ¹ , Kwon Young-il ¹ . Sin Myung Kang ¹ , Young-jin Ryu ¹
	'Centre de Recherche Paul Pascal/CNRS, Université de Bordeaux, Pessac, France	¹ Departamento de Química, Fisicoquímica de Superficies Universidad Autónoma Metropolitana- Iztapalapa, Iztapalapa, México	¹ European Space Agency, Noordwijk, Netherlands, ² Aerospace & Advanced Composites GmbH, Wiener Neustadt, Austria	¹Chungbuk National University, Cheongju, South Korea
	RAMAN SIGNATURES OF SINGLE LAYER GRAPHENE DISPERSED IN DEGASSED WATER WITHOUT ADDITIVES	SPECTROSCOPIC OBSERVATION OF OXYGEN DISSOCIATION ON NITROGEN-DOPED GRAPHENE	DIRECT METAL PRINTING OF METEORITE METAL	OXYGEN SEMI PERMEABILITY OF CATIO.9FE0.103-Δ
16.20	Dr George Bepete ² , Dr Carlos Drummond ² , Dr Alain Pénicaud ² , <u>Pr Eric Anglaret¹</u>	Dr Mattia Scardamaglia ¹ , Dr Toma Susi ² , Claudia Struzzi ¹ , Prof Rony Snyders ¹ , Dr Giovanni Di Santo ² , Dr Luca Petaccia ² , Dr Carla Bittencourt ¹	Dr. Bram Neirinck', irr. Karel Lietaert ^{1,2} . Dr. Lore Thijs', ir. Thomas Lapauw ² . dr. Jonas Van Vaerenbergh ¹	Mrs Corinne Salles ¹ , Dr Marlu César Steil ^{2,3} , Pr Jacques Fouletier ^{2,3} , Dr Daniel Marinha ¹
	¹ Laboratoire Charles Coulomb, Université Montpelli- er-CNRS, Montpellier, France, ² Centre de Recherche Paul Pascal, UPR CNRS 5521, Pessac, France	¹ University Of Mons. Mons. Belgium. ² University of Vienna. Faculty of Physics, Vienna, Austria, ³ Elettra Sincrotrone, Trieste, Italy	¹ 3DSystems, Leuven, Belgium, ² Department of Materi- als Engineering, KU Leuven, Leuven, Belgium	¹ Saint-Gobain LSFC. Cavaillon. France. ² Université Grenoble Alpes LEPMI, Grenoble, France, ³ CNRS LEPMI, Grenoble, France
	HIGH YIELD PRODUCTION OF GRAPHENE-Fe203 NANO-COMPOSITES VIA ELECTROCHEMICAL INTER- CALATION OF NITROMETHANE AND IRON CHLORIDE			HIGHLIGHT HIGH-TEMPERATURE 57Fe MÖSSBAUER STUDIES OF OXIDE MEMBRANE MATERIALS
16.40	Dr Zhenyuan Xia¹, Prof Catia Arbizzani², Dr Luca Orto- lani³, Dr Vittorio Morandi³, Prof Vincenzo Palermo¹			Prof. Dr. Klaus-Dieter Becker ¹ , Dr. Piotr Gaczynski ¹ , Dr. Anja Harpf ² , Dr. Juergen Boer ² , Dr. Tobias Klande ³ , Dr. Armin Feldhoff ³ , Dr. Robert Kircheisen ² , Dr. Ralf Kriegel ²
	listituto per la Sintesi Organica e la Fotoreattività - Consiglio Nazionale delle Ricerche, Bologna, Italy, ² Di- partimento di Chimica, University of Bologna, Bologna, Italy, ³ Istituto per la Microelettronica e Microsistemi - Consiglio Nazionale delle Ricerche, Bologna, Italy			¹ Technische Universität Braunschweig, Institute of Physical and Theoretical Chemistry, Braunschweig, Germany, ² Fraunhofer IKTS, Hermsdorf, Germany, ³ Leibniz Universität Hannover, Institute of Physical Chemistry and Electrochemistry, Hannover, Germany

Symposium	B1	В4	В7	C1
Room	Maurice Saltiel Hall I/M2	3.20/M1	CR III Hall/M2	Friends of Music Hall/M1
Session Title	Advanced Characterisation II	Composites and other properties	Hybrid and Perovskite Materials, Physical Properties and Devices	C1.3: Surface engineering and modifications 3/3 -Fatigue & Wear
Chairperson	Ernst Gamsjäger, Wieslaw Swiatnicki	Ilchat Sabirov	Dan Zhao	E. Aperathitis, R. Cremer
	KEYNOTE/INVITED BONE-LIKE EXTRAORDINARY CRACK RESISTANCE IN HIERARCHICAL METASTABLE NANO-LAMINATE STEELS	HIGHLIGHT INTERNAL LENGTHS IN SPD MATERIALS	KEYNOTE/INVITED HYBRID NANOCARBON-BASED AND BIO-RELATED MATERIALS FOR OPTOELECTRONIC DEVICES	PULSED PLASMA SURFACE FUNCTIONALIZED NANOSILYER FOR GENE DELIVERY
15.00		Professor Elias Aifantis¹		Mr. Ajinkya Trimukhe ¹ , Mr. Prasad Pofali ² , Mr. Amogh Vaidya ⁴ , Dr. Prajakta Dandekar ² , Dr. Ratnesh Jain ² , Dr. Rajendrasing Deshmukh ¹
		'Aristotle University, Thessaloniki, Greece		Department of Physics, Institute Of Chemical Technology, Mumbai, India, 'Department of Chemical Engineering, Institute Of Chemical Technology, Mumbai, India, 'Department of Pharmaceutical Sciences and Technology, Institute Of Chemical Technology, Mumbai, India, 'Institute of Bioinformatics and Biotechnology, Savitribai Phule Pune University, Pune, India
	<u>Cem Tasan'</u> , Motomichi Koyama ² , Zhang Zhao ² , Meimei Wang', Dirk Ponge ² , Dierk Raabe ² , Kaneaki Tsuzaki ² , Hiroshi Noguchi ²	MECHANICAL PROPERTIES OF BULK METALLIC GLASS COMPOSITES GENERATED BY SEVERE PLASTIC DEFORMATION	Dr. Ruben Costa ¹	MICROSTRUCTURAL STUDY OF SHOT PEENED NICKEL-BASED SUPERALLOY (U720Li) UNDER ISOTHERMAL EXPOSURE
		Lisa Krämer ¹ , Verena Maier-Kiener ² , Karoline Kormout ¹ , Yannick Champion ³ , Oliver Renk ¹ , Reinhard Pippan ¹		Mr. Dharmesh Kumar ^{1,2} , Dr. Sridhar Idapalapati ¹ , Dr. Wang Wei ² , Dr. Daniel Child ³ , Dr. Thomas Haubold ⁴ , Dr. Wong Chow Cher ²
15.20	¹MIT, ²Kyushu University. ³Max-Planck Institute fur Eisenforschung	¹ Erich Schmid Institute of material sciences, Austrian Academy of Science, Leoben, Austria; ¹ Department Physical Metallurgy and Materials Testing, Monta- nuniversät of Leoben, Leoben, Austria; ² CMRS Centre National de la Recherche Scientifique, Paris, France	¹University Erlangen-Nürnberg, Erlangen, Germany	'School of Mechanical and Aerospace Engineering, Nanyang Technological University. 50 Nanyang Ave, Singapore, 'Advanced Remanufacturing and Technology Centre. Agency for Science. Technology and Research (A'STAR), #01/01, 3 CleanTech Loop. CleanTech Two, Singapore, 'Rolls-Royce Ptc, PO Box 31, Derby De24 8BJ, United Kingdom, 'Rolls-Royce Deutschland Ltd & Co KG. Hohemarkstraße 60-70, 61440 Oberursel, Germany
	VC-PRECIPITATION KINETICS AND ITS INTERACTION WITH PHASE TRANSFORMATION IN NANO-STEELS	LIMITING PROCESSES OF SUPERSATURATION	NEW PHOTOACTIVE HYBRID MATERIALS WITH LARGE STOKES SHIFT	FATIGUE OF DENGELING TREATED AL-ALLOYS
15.40	Miss Chrysoula loannidou ¹ , Miss Zaloa Arechabaleta Guenechea ¹ , Mr Arjan Rijkenberg ³ , Mr Ad van Well ² , Mr Erik Offerman ¹	Dr. Karoline Kormout ¹ , Dr. Pradipta Ghosh ¹ , Prof. Reinhard Pippan ¹	Claudia Barolo¹, Eleonora Conterosito², Valentina Toson², Giorgio Volpi¹, Nadia Barbero¹, Valentina Gianotti², Alberto Menozzi³, Guido Viscardi¹, Marco Milanesio²	Associate Professor Ru Lin Peng¹, Dr Mattias Jonsson², Dr Linnéa Selegård², Dr Markus Ess³, Dr Gert Petersén²
	Department of Materials Science and Engineering, Delft University of Technology, Mekelveg 2, 2282CD Delft, The Netherlands Department of Radiation Science and Technol- ogy, Delft University of Technology, Mekelveg 15, 2629JB Delft, The Netherlands, "TATA Steet, 1970CA Umuiden, The Netherlands	¹ Erich Schmid Institute Of Materials Science, Leoben, Austria	¹ Department of Chemistry and NIS and INSTM Refer- ence Centre Università degli Studi di Torino, Torino, Ita- ly, ² Dipartimenta di Science e Innovazione Tecnologica, Università del Piemonte Orientale, Alessandria, Italy, ² Special Engines Srt, Torino, Italy	¹ Linköping University, Linköping, Sweden, ² Saab, Linköping, Sweden, ³ Starrag AG, Rorschacherberg, Switzerland
	MICROSTRUCTURAL CHANGES DURING THERMAL PROCESSING OF STEELS — EVALUATION TECH- NIQUES FOR IN-SITU X-RAY DIFFRACTION DATA	INFLUENCE OF PROCESSING PARAMETERS ON THE SATURATION MICROSTRUCTURE AND MECHANICAL PROPERTIES OF HPT-DEFORMED NICKEL/CARBON NANOTUBE COMPOSITES	MECHANICAL PROPERTIES AND PHASE TRANSITION MECHANISMS OF HYBRID ORGANIC-INORGANIC PEROVSKITES	SURFACE MODIFICATION OF GEOMATERIALS USING HIGH-POWER NANOSECOND PULSES
16.00	Assoz. Prof. Ernst Gamsjäger ¹ , Dr. Manfred Wiessner ² , Dr. Paul Angerer ³	Andreas Katzensteiner ¹ , Timo Müller ¹ , Prof. Reinhard Pippan ¹ , Dr. Andrea Bachmaier ¹	Prof. Wei Li¹	Doctor Of Engineering Science (Dr. habit) I gor Bunin', Doctor Of Engineering Science (Dr. habit) Valentine Chanturiya', Doctor of Engineering Science (Candidate of Sciences) Maryia Pyazantseva', Doctor of Engineering Science (Candidate of Sciences) Irina Khabarova', Graduate Student Nataliya Anashkina', Doctor of Engineering Science (Candidate of Sciences) Elizaveta Koporulina'
	'Institute of Mechanics, Montanuniversitaet Leoben, Leoben, Austria, 'Anton Paar GmbH, Graz, Austria, 'Materials Center Leoben Forschung GmbH, Leoben, Austria	¹ Erich Schmid Institute, Leoben, Austria	'Huazhong University Of Science And Technology, Wuhan, China	'Institute of Comprehensive Exploitation of Mineral Resources Russian Academy of Science, Moscow, Russian Federation
	CYCLIC AUSTENITE-FERRITE TRANSFORMATIONS IN STEELS STUDIED BY IN-SITU 3D NEUTRON DEPOLARISATION	RADIATION RESISTANCE OF A FeCt MODEL ALLOY NANOSTRUCTURED BY SEVERE PLASTIC DEFORMATION	PEROVSKITES FOR PRINTABLE THERMOELECTRIC DEVICES	INVESTIGATION OF AN ADVANCED HEAT TREATMENT OF ZrNb7 FOR IMPROVED WEAR RESISTANCE IN TRIBOLOGICAL APPLICATIONS
16.20	Mr. Haixing Fang ¹ , Dr. Niels van Dijk ¹ , Prof.dr. Ekkes Brück ¹ , <u>Prof.dr. Sybrand van der Zwaag</u> ¹	Bertrand Radiguet ¹ , Xavier Sauvage ¹ , Auriane Etienne ¹ , Nariman Enikeev ² , Marina Abramova ² , Yulia Ivanisenko ³	Prof. Andrea Reale ¹ , Dr. Lucio Cinà ² , Dr. Alessandro Lorenzo Palma ¹ , Dr. Fabio Matteocci ¹ , Prof. Aldo Di Carlo ¹	M.Sc. Mike Mosbacher ¹ , DrIng. Michael Reif ² , DrIng. Mathias Galetz ² , Prof. DrIng. Uwe Glatzel ¹
	Delft University Of Technology, Delft. Netherlands	University Of Rouen, Saint Etienne du Rouvray, France, ² Ufa State Aviation Technical University, Ufa, Russia, ² Institute for Nanotechnology, Karlsruhe Institute for Technology, Karlsruhe, germany	'CHOSE and Dept. Electronic Engineering - Univ. Rome Tor Vergata, Rome, Italy, ² Cicci Research, Italy	'University Bayreuth, Bayreuth, Germany, ² OECHSLER AG, Ansbach, Germany, ³ DECHEMA-Forschungsinstitut, Frankfurt am Main, Germany
	THE GOS-METHOD: AN ALTERNATIVE METHOD FOR THE DETERMINATION OF RECRYSTALLIZATION KINETICS OF DEFORMED MICROSTRUCTURES		NANOFLUIDIC ENERGY CONVERSION USING METAL-ORGANIC-FRAMEWORKS	
16.40	M.Sc. Lena Eisenhut ¹ , Prof. Dr. mont. Christian Motz ¹ , M.Sc. Tim Krämer ² , Dr. Eric Detemple ²		Dr. Yueting Sun ¹² , Prof. Yibing Li ² , Prof. Jin Chong Tan ¹	
	'Saarland University, Chair Of Material Science and Methods, Saarbrücken, Germany, 'AG der Dillinger Hüttenwerke, Dillingen Saar, Germany		Department of Engineering Science, University of Oxford, Oxford, United Kingdom, 'State Key Laboratory of Automotive Safety and Energy, Tsinghua University, Beijing, P. R. China	

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Symposium	Al ZUI/	C4	C5	C5(PARALLEL SESSION)	
Room	Maurice Saltiel Hall III/M2	Conference Room 4/M1	Museum Hall /M2	Aimilios Riadis Hall/M2	
Session Title	SPS and tailored microstructures	Testing, characterization and modeling for Additive Manufacturing 2	Grain boundaries	Interfaces	
Chairperson	Michael Josse	Ilaria Cristofolini	George Kaptay, Javier Narciso	Boris Straumal, Fabrizio Valenza	
	HIGHLIGHT A NEW MANUFACTURING PROCESS OF POROUS MATERIALS WITH HIGHLY DIRECTIONAL MICROPORES. APPLICATION TO THE MANUFACTURING OF HYBRID LATTICE STRUCTURES/MICROPOROUS PARTS FOR MECHANICAL STRENGTHENING	SURFACE CHEMISTRY OF POWDER FOR ADDITIVE MANUFACTURING AND ITS CHANGES DURING AM PROCESSING	KEYNOTE/INVITED GRAIN BOUNDARY WETTING BY A SECOND SOLID PHASE	KEYNOTE/INVITED MODELLING PHASE EQUILIBRIA IN NANO-SYSTEMS	
15.00	Oceane Lambert ¹ , Laura Delcuse, Cecile Davoine	PhD Eduard Hryha ¹ , MSc Hans Gruber ¹ , MSc Alexander Leicht ¹ , Dr Ruslan Shvab ¹ , Professor Lars Nyborg ¹			
	¹ Onera – The French Aerospace Lab, Chatillon, France	¹ Chalmers University Of Technology, Gothenburg, Sweden	Prof Boris Straumal ^{1,234} , Dr. Alena Gornakova ¹ , Dr. Andrey Mazilkin ^{2,3}	Professor George Kaptay	
	CHARACTERIZATION OF OXIDE DISPERSION STRENGTHENED FUNCTIONALLY GRADED FE-BASED MATERIALS ELABORATED BY POWDER METALLURGY FOR RAILWAY APPLICATIONS	METAL POWDERS FOR ADDITIVE MANUFACTURING: ASSESSMENT OF PROCESSING CHARACTERISTICS			
15.20	PhD Student Kaoutar Naji ¹² , Associate Professor Marie-Noëlle Avettand-Fènoël ¹ , Senior executive Philippe Pouligny ²	DrIng. Dirk Lehmhus ¹ , Claus Aumund-Kopp ² , Markus Uhlirsch ² , Lena Sentker ² , Sandra Wieland ² , DrIng. Frank Petzoldt ² , Prof. DrIng. Matthias Busse ²	NITU MISIS, Chernogolovka, Russian Federation, *Institute of Solid State Physics, Russian Academy of Sciences, Chernogolovka, Russia, *Karlsruher Institut für Technologie (KIT), Institut für Nanotechnologie, Eggenstein-Leopoldshafen, Germany, *National University of Science and Technology «MISIS», Moscow, Russia	'University Of Miskolc, Miskolc, Hungary	
	¹ Unité Matériaux El Transformations (UMET), UMR CNRS 8207. University Lille 1, Villeneuve d'Asca, France, ² SNCF Réseau, Direction Ingénierie et Projets, La Plaine Saint Denis, France	¹ University Of Bremen, Bremen, Germany, ² Fraunhofer IFAM, Bremen, Germany	, moder, mode		
	SINTERING AND ELECTRICAL CHARACTERIZATION OF 8YSZ/GRAPHENE COMPOSITES	DEGRADATION OF STAINLESS STEEL 316L POWDER ASSOCIATED WITH ADDITIVE MANUFACTURING BY EBM AND DMLS	GRAIN BOUNDARY WETTING IN NaCl By Molten Sodium	ENCAPSULATION STRATEGY FOR STABLE METAL PHASE CHANGE MATERIALS USED FOR HIGH- TEMPERATURE HEAT STORAGE APPLICATIONS	
15.40	<u>Daniel Marinha</u> ', Manuel Belmonte ²	Mr. Alexander Leicht ¹ , Prof. Eduard Hryha ¹ , Prof. Lars Nyborg ¹	Dr Vladimir Traskine¹. Professor Zoya Skvortsova¹. Dilara Farkhutdinova¹	Phd Candidate Selmar Binder ¹ . Professor Sophia Haussener ¹	
	¹ Saint-gobain CREE, Cavaillon, France, ² Institute of Ceramics and Glass, (ICV-CSIC), Madrid, Spain	¹ Chalmers University of Technology, Sweden	¹ Department of Chemistry, Lomonosov University, Moscow, Russian Federation	'Laboratory for Renewable Energy Science and Engineering. École Polytechnique Fédéral de Lausanne, Lausanne, Switzerland	
16.00	EXPERIMENTAL OBSERVATION AND NUMERICAL SIMULATION ON THE ANISOTROPIC SINTERING BEHAVIOR OF FREEZE-CAST CERAMICS	EFFECT OF THE PROCESSING PARAMETERS ON POROSITY FEATURES OF TI6AL6V ALLOY MANUFACTURED BY SLM	RARE-EARTH DOPING AND CRYSTALLIZATION BEHAVIOUR OF BI4Si3012 SCINTILLATOR	STRAIN SENSING ABILITY AND STRESS TRANSFEI PROFILES OF HIERARCHICAL CARBON FIBERS PRODUCED VIA DIFFERENT METHODS	
	Dr Aaron Lichtner ² , Dr Denis Roussel ¹ , Dr Julie Villanova ³ , Dr David Jauffres ¹ , Pr Rajendra K Bordia ⁴ , <u>Dr Christophe L Martin</u> ¹	Massimiliano Tomaselli", <u>Professor Alberto Molinari</u> ". Emanuele Magalini ² , Valerio Luchin ² , Gianluca Zappini ²	Professor Jiayue Xu¹, student Yunfang Pan¹, student Haiwei Feng¹, Associate Professor Yaoqing Chu¹, Associate Professor Yan Jhang¹, Engineer Tian Tian¹, Associate Professor Hui Shen¹	Material Science Engineer Kyriaki Tsirka'. Material Science Engineer Giorgos Karalis'. Professor Alkiviadis Paipetis'	
	¹ Univ. Grenoble Alpes, CNRS, SIMaP, Grenoble, France, ² Dept. of Mat. Sci. and Eng. University of Washington, Seattle. USA. "ESRF. The European Synchrotron, Grenoble, France, ⁴ Dept. of Mat. Sci. and Eng., Clemson University, Clemson, USA	¹ University Of Trento, Trento, Italy, ² Eurocoating SpA, Pergine Valsugana, Italy	¹ School Of Materials Science And Engineering, Shanghai Institute Of Technology, Shanghai, China	¹ University Of Ioannina, Ioannina, Greece	
	MECHANISMS OF REFRACTORY METAL BORIDES AND CARBIDES FORMATION DURING MECHANICAL ALLOYING	MICRO-TENSILE TESTING AM MATERIALS FOR LOCATION SPECIFIC PROPERTIES	SOME CHARACTERISTIC FEATURES OF Ni-Re-P COATINGS ELECTROLESS DEPOSITED ON COPPER	EFFECT OF METAL COATINGS ON THE INTERFACIA BONDING STRENGTH OF CERAMICS TO COPPER IN SINTERED Cu-SIC COMPOSITES	
16.20	<u>Dr Mariia Saviak</u> , Prof. Irina Uvarova	Mr. Michael Duffy'. Dr. Steven Storck'. Dr. Richard Everett', Prof. Marc Zupan'	Prof. Joanna Wojewoda-Budka¹, Dr. Anna Wierz- bicka-Miernik¹, Dr. Honorata Kazimierczak¹, Izabella Kwiecien¹, Lidia Litynska-Dobrzynska¹, Maciej Szczer- ba, Pawel Czaja¹, Jerzy Morgiel¹, Fabrizio Valenza²	PhD Dariusz Jarząbek ¹ , Msc Cezary Dziekoński ¹ , PhD Marcin Chmielewski ²	
	¹ Frantsevich Institute for Problems of Materials Science of National Academy of Sciences of Ukraine , Kyiv, Ukraine	¹ University Of Maryland. Baltimore County. Baltimore, United States, ² Johns Hopkins University Applied Physics Laboratory, Laurel, United States	Institute of Metallurgy and Materials Science, Polish Academy of Sciences, Krakow, Poland, Institute of Condensed Matter Chemistry and Technologies for En- ergy, National Research Council of Italy, ICMATE-CNR, Genoa, Italy	'Institute Of Fundamental Technological Research, Warsaw, Poland, ² Institute of Electronic Materials Technology, Warsaw, Poland	
16.40		TESTING AND QUALIFICATION IN METAL ADDITIVE MANUFACTURING		EXPERIMENTAL INVESTIGATION OF THE SYSTEM NON-METALLIC INCLUSION-MOLTEN STEEL-RE-FRACTORY AT HIGH TEMPERATURES	
		Technical Director, Metals Technology Prabir CHAUDHURY		Ing. Quim. Uxia Dieguez Salgado ¹ , DiplIng. Philip Dorrer ¹ , DiplIng. Dr. mont. Susanne Michelic ¹ , Ao. UnivProf. DiplIng. Dr. mont. Christian Bernhard ¹	
		'Exova, Santa Fe Springs, United States		'Chair of Ferrous Metallurgy, Montanuniversitaet Leoben, Leoben, Austria	

Symposium	VAN ZUIV	C9	C10	C11
Room	Library Hall/M2	Conference Room 3/M1	F 319/M1	MOYSA Hall/M2
Session Title	Solidification	Plastic deformation processes	SPD for specific applications (Bio-materials, H-storage, shape memory alloys)	Nanostructures
Chairperson	Hisao Esaka, Kader Zaidat	Prof. Alain Daidié	K. Edalati and N. Stepanov	Dimitis Tsoukalas
15.00	UNDERSTANDING HOMOGENOUS NUCLEATION MECHANISMS IN SOLIDIFICATION OF METALS	CO-ROLLING OF TUNGSTEN WIRE AT AMBIENT TEMPERATURE	KEYNOTE/INVITED TUNING PROPERTIES OF Mg ALLOYS BY A COMBINA- TION OF SPD AND EXTRUSION FOR APPLICATIONS IN BIODEGRADABLE DEVICES	A METHOD FOR THE DETERMINATION OF THE DENSITY OF GAS STORED WITHIN BLISTERS
	<u>Dr. Mohsen Asle Zaeem</u> ¹, Mr. Avik Mahata¹, Dr. Michael Baskes²	<u>Dr. Rudy Michel</u> ¹ , Pr. Yves Bienvenu ¹ , Dr. Alain Thorel ¹		<u>Dr. Nikolay Cherkashin</u> ¹, Dr. Nabil Daghbouj¹, Dr. Alain Claverie¹
	'Missouri University of Science and Technology, Rolla, United States, 'University of California-San Diego, La Jolla, United States	MINES ParisTech, PSL Research University, MAT - Centre des matériaux, CNRS UMR 7633, BP 87 91003 Evry, France	Prof Maurizio Vedani ¹ , Dr Ehsan Mostaed ¹	¹ CEMES-CNRS, Toulouse, France
	MOVEMENT OF SOLID-LIQUID PHASES IN HORIZONTAL CENTRIFUGAL CASTING PROCESS	NUMERICAL SIMULATION OF THE OUT-OF-PLANE DISPLACEMENT DURING COLD-EXPANSION OF TITANIUM PLATE		GEOMETRICAL DEFECTS IN LITHOGRAPHIC STRUCTURES OF NANOELECTRONIC DEVICES: METROLOGY AND CHARACTERIZATION
15.20	Dr. Hisao Esaka', Mr. Takahiro Yamada ¹ , Dr. Kei Shinozuka ¹	<u>Post-doc Julien Cochet</u> ¹ , Professor Alain Daidié ¹ , Engineer Clément Chirol ²	¹Politecnico Di Milano, Dept. Of Mechanical Engineering, Veduggio Con Colzano, Italy	Mr. George Papavieros ¹²³ , Dr. Vassilis Constantoudis ¹³ , Dr. Evangelos Gogolides ¹³
	¹National Defense Academy, Yokosuka, Japan	''Université de Toulouse - Institut Clément Ader (ICA), Toulouse, France, 'Airbus Operations S.A.S., Toulouse, France		"N.C.S.R. Demokritos , Athens / Aghia Paraskeui, Greece, 'Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece, 'Nanometrisis P.C., Athens/ Aghia Paraskeui, Greece
	IN-SITU INVESTIGATIONS OF PRIMARY PHASE NUCLE- ATION DURING RAPID SOLIDIFICATION USING XAS IN IRON AND IRON ALLOYS	CATEGORIZATION OF THE DEFECT, TINY IN NATURE ORIGINATING FROM THE HOT ROLLING MILL/COLD ROLLING MILL	HIGHLIGHT EFFECT OF COLD ROLLING ON THE HYDROGEN SORPTION PROPERTIES OF TITANIUM	LIGHT EMITTING PROPERTIES AND RECOMBINATION DYNAMICS OF Cuins*/Zns core shell quantum dots
15.40	Mr. Samuel Clark ¹ , Miss. Kateryna Hechu ¹ , Mr. Adam Clark ² , Prof. Seetharaman Sridhar ¹	Mr Pankaj Choubey¹	Jacques Huot ¹ , Thierry Grosdidier ² , Stéphanie Curcio ² , Nathalie Alain ²	Prof. Dr. Spiros Gardelis' ² , Prof. Dr. M Fakis ² , Mr. N Droseros ² , Dr. D Georgiadou', Dr. A Travlos ¹ , Dr. A Nassiopoulou ¹
	¹ University of Warwick, Coventry, United Kingdom, ² University College London, London, United Kingdom	'Tata Steel Ltd. Jamshedpur, India, ² JCAPCPL, Jamshedpur, India	'Université du Québec à Trois-Rivières, Trois-rivieres, Canada, 2Université de Lorraine, Metz, France	'NCSR Demokritos INN, Terma Patriarchou Grigoriou, Aghia Paraskevi, 15310, Athens, Greece, 'Department of Physics, University of Patras, 26500, Patras, Greece, 'Solid State Physics Section, Physics Department, National and Kapodistrian University of Athens, Pane- pistimicupolis, Zografos, 15784, Athens, Greece
	STATISTICAL ANALYSIS ON THE CET MECHANISM OF THE TIN-LEAD ALLOY SOLIDIFICATION	NUMERICAL SIMULATION OF JCO-E PIPE FORMING PROCESS AND ITS EFFECT ON THE EXTERNAL PRESSURE CAPACITY OF THE PIPE	HIGHLIGHT EFFECT OF NANOSTRUCTURES FORMED IN BIOMED- ICAL TI-NI AND NI-FREE TI-BASED SHAPE MEMORY ALLOYS BY THERMOMECHANICAL TREATMENT ON THEIR FUNCTIONAL BEHAVIOR	PATTERNED SUBSTRATES FOR THE FABRICATION OF SPUTTERED Zno-based transparent bipolar devices
16.00	Dr Lakhdar Hachani ² , <u>Pr Kader Zaidat</u> ¹ , Pr Yves Fautrelle ¹	Ph.D. Student Giannoula Chatzopoulou¹. Ph.D. Student Konstantinos Antoniou¹. Professor Spyros Karamanos¹	Professor Sergey Prokoshkin ¹ , Professor Vladimir Brailovski ² , PhD Karine Inaekyan ² , PhD Sergey Dubinskiy ¹ , PhD Vadim Sheremetyev ¹ , PhD Anton Konopatsky ¹	Dr Elias Aperathitis', Mr Athanasios Kostopoulos', Dr George Konstantinidis', Dr Mircea Modreanu ² , Ms Maria Kayambaki ¹ , Ms Katerina Tsagaraki ¹
	'Univ. Grenoble Alpes, CNRS, Grenoble INP, SIMaP, F-38000, Grenoble, France, 'Laboratoire de physique des matériaux, Université Amar Telidji de Laghouat, Laghouat, Algérie	'University Of Thessaly, Volos, Greece	¹ National University of Science and Technology MISIS, Moscow, Russian Federation, ¹ Ecole de Technologie Superieure, Montreal, Canada	"FORTH/IESL., Heraklion, Greece, "Tyndall National Institute, Cork, Ireland
	MICROSTRUCTURE SELECTION IN In-Bi-Sn TERNARY EUTECTIC SYSTEM DURING DIRECTIONAL SOLIDIFICATION	CHARACTERIZATION AND ANALYSIS OF TINY DEFECT IN AUTOMOTIVE GRADE STEEL	EQUAL-CHANNEL ANGULAR PRESSING OF TI-NI SMA UNDER QUASI-CONTINOUS MODE FOR ULTRAFINE-GRAINED STRUCTURE FORMING AND IMPROVING FUNCTIONAL PROPERTIES	Zno MICRO- AND NANOSTRUCTURES OBTAINED BY THE PRODUCTS OF THE SELECTIVE AMMONIA- CAL LEACHING PROCESS OF SPENT ALKALINE BATTERIES
16.20	Ms. Samira Mohagheghi [†] , Mrs. Melis Serefoglu [†]	Mrs Dipti Saha¹, <u>Mr Pankaj Choubey</u> ²	Irina Khmelevskaya¹	Dr Teresa Cebriano ¹, Dra Irene García Díaz¹, PhD Ana López Fernández¹, PhD Laura Fernández Rodríguez¹, Dr Félix Antonio López¹, Prof. Dr Paloma Fernández²
	'Koc University, Istanbul, Turkey	¹ Jamshedpur Continuous Annealing & Processing Company Pvt Ltd, Jamshedpur, India, ² Tata Steel Ltd, Jamshedpur, India	'National University Of Science And Technology "misis", 4, Leninskiy Pr., Moscow, 119049 Russia, Russian Federation	¹ CSIC-CENIM, Madrid, Spain, ² Universidad Complutense (UCM), Madrid, Spain
16.40	SOLIDIFICATION BEHAVIOUR OF MOTANDYTI HIGH ENTROPY ALLOYS WITH DIFFERENT MO CONTENT	OPTIMIZATION OF INJECTION STRETCH BLOW MOLDING (ISBM) PROCESS FOR THE PRODUCTION OF LIGHTWEIGHT AND WITH GOOD MECHANICAL PROPERTIES PET CONTAINERS		INVESTIGATION OF STRUCTURE FORMATION IN LI-ION BATTERY ANODE FILMS DURING DRYING
	Dipl. Eng. Anthoula Poulia ¹ , Dipl. Eng. Emmanuel Georgatis ¹ , Dr. Alexander Karantzalis ¹	Assistant Professor Antonios Lontos ¹ . PhD student Andreas Gregoirou ²		Prof. Dr. Wilhelm Schabel ¹ , Dr. P. Scharfer ¹ , S. Jaiser ¹ , M. Baunach ¹ , J. Kumberg ¹ , R. Diehm ¹
	¹ University Of Ioannina, Ioannina, Greece	¹ Frederick University Cyprus, Nicosia, Cyprus, ² Frederick University Cyprus, Nicosia, Cyprus		¹ Karlsruhe Institute of Technology - Thin Film Technology, Karlsruhe, Germany
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EUROMAT2017 13<u>9</u>

EUROM			FINAL PROGRAM/ FRIDAY /PM
Symposium	D1	D5	D6
Room Session Title	Artist Cafe/M1	I-15/M1 Methods and Special Applications	Maurice Saltiel Hall II/M2 Multi-Length-Scale Innovations in Damage Evolution
Chairperson	Federico Zontone and Evangelia Moshopoulou	Fathollah Varnik	in Materials: Characterization, Modeling, and Validation Saryu Fensin
Ondii person	PULSE PICKER FOR X-RAY RADIATION DRIVEN BY SURFACE ACOUSTIC WAVE	PHASE-FIELD SIMULATION OF THE MICROSTRUCTURE EVOLUTION OF AUSTENITE DURING MULTIPASS HOT ROLLING OF HSLA STEELS	COMPUTATIONAL MODELLING OF AQUEOUS CORROSION: REACTIVE TRANSPORT MODELLING OF STABILITY OF CORROSION PRODUCTS
15.00	Mr. Simone Vadilonga¹, Dr Ivo Zizak¹, Mr. Andrei Petsiuk¹, Dr. Dmitry Roshchupkin², Dr. Kawal Sawhney², Dr. Igor Dolbnya³, Prof. Dr. Alexei Erko¹	Mrs Maria-loanna Tzini¹. Professor Greg Haidemenopoulos¹	PhD Maalek Mohamed-Said ¹ , Professor Bruno Vuillemin ¹ , Dr Roland Oltra ¹ , Laurent Trenty ² , Didier Crusset ²
	Helmholtz Zentrum Berlin, Berlin, Germany, *Institute of Microelec- tronics Technology and High Purity Materials, Chernogolvka, Russia, *Diamond Light Source, Didcot, United Kingdom	'University Of Thessaly, Volos, Greece	¹ CNRS - Univ. Bourgogne France Comté. Dijon, France, ² ANDRA, Direction de la Recherche et Dévelappement, Châtenay-Malabry, France.
	COMBINING A NINE-CRYSTAL MULTIANALYZER STAGE WITH A PILATUS3 X CDTE DETECTOR FOR HIGH RESOLUTION X-RAY POWDER DIFFRACTION AT ESRF-ID22	COMPUTATIONALLY EFFICIENT PHASE-FIELD STUDIES BY SIMULATION SAMPLING AND STATISTICAL ANALYSIS	MODELLING CRACK NUCLEATION AND GROWTH UNDER ROLLING CONTACT FATIGUE
15.20	Dr. Catherine Dejoie¹, Dr. Mauro Coduri¹, Dr. Carlotta Giacobbe¹, Olivier Grimaldi¹, Sebastien Petitdemange¹, Dr. Dubravka Sisak-Jung², Dr. Andrew Fitch¹	Mr. Christian Schwarze ¹ , Dr. Reza Darvishi Kamachali ¹ , Mr. Markus Kühbach ² , Mr. Luis Barrales Mora ² , Mr. Christian Mießen ² , Mr. Marvin Tegeler ¹ , Prof. Ingo Steinbach ¹ , Prof. Günter Gottstein ²	Dr. Isaac Toda-caraballo ¹² , Dr. Jakub Jelita Rydel ¹ , Dr. Gael Guetard ^{1,3} , Dr. Pedro Rivera-Diaz-del-Castillo ¹
	¹ ESRF - The European Synchrotron, Grenoble, France, ² Dectris, Baden, Switzerland	Interdisciplinary Centre for Advanced Materials Simulation, Ruhr-uni- versity Bochum, Bochum, Germany, Institute of Physical Metallurgy and Metal Physics, RWTH Aachen University, Aachen, Germany	'The University Of Cambridge, Cambridge, UK, 'Materalia Research Group, Department of Physical Metallurgy, Centro Nacional de Investi- gaciones Metalúrgicas (CENIM-CSIC), Madrid, Spain, 'Erasteel, Paris, France
	SUB-50NM CROSS-SECTIONAL X-RAY NANODIFFRACTION ANALYSIS OF MICROSTRUCTURE AND STRAIN IN THIN FILMS	DESIGN AND ELECTROCHEMICAL MODELING OF FENICOCU HIGH ENTROPY ALLOY PARTICLES AS NEW ELECTRODE CATALYST MATERIAL FOR FUEL CELL APPLICATION	ATOMISTIC SIMULATION OF MECHANICAL BEHAVIOR OF INTERFACES IN ULTRA HIGH TEMPERATURE CERAMIC MATRIX COMPOSITES
15.40	AssocProf. Dr. Jozef Keckes ¹	Res. Assist. Serzat Safaltin ¹ , Res. Assist. Burak Kücükelyas ¹² , Prof. Dr. Sebahattin Gurmen ¹	<u>Dr Yanhui Zhang</u> ¹, Prof Stefano Sanvito¹
	'Montanuniversität Leoben, Leoben, Austria	'Istanbul Technical University, Department of Metallurgical and Materials Engineering, Istanbul/Sariyer, Turkey, 'Bursa Technical University, Department of Metallurgical and Materials Engineering, Bursa/Osman- gazi, Turkey	[†] Trinity College Dublin, Dublin, Ireland
16.00	MATERIAL CHARACTERIZATION ON VESPERS BEAMLINE AT CLS	DEVELOPMENT OF A VIRTUAL DIRECT-CHILL CASTING SIMULATOR FOR DESIGNING AA7050 HARD ALLOY CASTING PRACTICE	DUCTILITY PREDICTION FOR MAGNESIUM CASTING USING HIERARCHICAL MICROSTRUCTURE-BASED FINITE ELEMENT METHOD
	Dr Renfei Feng [†]	Professor Junsheng Wang'. Dr. Peipei Yang'	Dr. Xin Sun¹
	'Canadian Light Source, Saskatoon, Canada	'Beijing Institute Of Technology. Beijing. China	'Pacific Northwest National Laboratory, Richland, USA
	MOBILE PULSED LASER DEPOSITION EQUIPMENT FOR IN SITU INVESTIGATION AT SYNCHROTRON RADIATION FACILITIES	NONLINEAR ELASTIC EFFECTS IN PHASE FIELD CRYSTAL AND AMPLITUDE EQUATIONS: COMPARISON TO AB INITIO SIMULATIONS OF BCC METALS	A STUDY OF THE MULTI-AXIAL FATIGUE DAMAGE MECHANISMS FOR A GLASS FIBRE REINFORCED THERMOPLASTICS (PA66)
16.20	Dr. Ksenia Maksimova ¹² , Dr. Dmitri Novikov ² , Dr. Alexander Goikhman ¹	Claas Hüter ^{1,2} , Martin Friak ^{3,4} , Nigel Goldenfeld ⁵ , Marc Weikamp ¹ , Jörg Neugebauer ² , Robert Spatschek ¹	Fang Lu ¹²³ , Sabine Cantournet ¹ , Noëlle Billon ² , Jean-Luc Bouvard ² , Marc Bernacki ² , Victor Fabre ³
	¹ Immanuel Kant Baltic Federal University, Kaliningrad, Russian Federa- tion, ² Deutsches Elektronen-Synchrotron , Hamburg, Germany	'Forschungszentrum Jülich, Jülich, Germany, 'Max-Planck-Institut für Eisenforschung, Düsseldorf, Germany, 'Institute of Physics of Materials, Academy of Sciences of the Czech Republic, Brno, Czech Republic, 'Central European Institute of Technology, CEITEC MU, Masaryk University, Brno, Czech Republic, 'Egeartment of Physics, Loomis Laboratory of Physics, University of Illinois at Urbana-Champaign, Urbana, USA	¹ Mines Paristech, PSL Research University, Centre des matériaux, Evry, France, ² Mines Paristech, PSL Research University, Centre de Mise en Forme des matériaux, Sophia Antipolis, France, ³ Hutchinson SA, Research and Innovation Centre, Chalette-sur-Loing, France
16.40		HIERARCHICAL BUCKLING INSTABILITIES AS A ROUTE TOWARDS SURFACE PATTERNING	EXAMINING STRUCTURE-PROPERTY RELATIONSHIPS IN ATHLETIC COMPOSITES USING CORRELATIVE MICROSCOPY
		Dr. Gabriella Tarantino ¹ , Dr. Kostas Danas ¹	Jeff Gelb¹, Dr. Leah Lavery¹, Luke Hunter¹, Dr. Lars-Oliver Kautschor², Dr. Arno Merkle¹
		[†] Ecole Polytechnique, Palaiseau, France	¹ Carl Zeiss Microscopy, Pleasanton, United States, ² Carl Zeiss Microscopy, Oberkochen, Germany

Symposium	D10	E6	F6
Room	CR II Hall/M2	Maurice Saltiel Hall II/M2	Conference Room 2/M1
Session Title	Advanced Materials	Metals and Additive Manufacturing of Metals	Functional properties of bio-inspired materials
Chairperson	Ghysels-Zólyomi	Von Hehl	Kerstin Koch
	HIGHLIGHT IONIC DIFFUSION FROM NON-EQUILIBRIUM AB INITIO MOLECULAR DYNAMICS: THE METHOD AND ITS APPLICATION TO DOPED CERIA	DEFORMATION BEHAVIOR OF Ti-6AI-4V ALLOY Under equi-biaxial tension	BIOINSPIRED SELF-HEALING COMPOSITES WITH STRUCTURAL CAPABILITIES
15.00	Mr Johan Klarbring ¹ , Dr Olga Vekilova ^{2,3} , Dr Johan Nilsson ² , Professor Natalia V. Skorodumova ^{2,3} , Professor Sergei I. Simak ¹	<u>Srinivasan Nedunchezhian</u> ¹ , Prof. R Velmurugan ¹ , Dr. Ravi Kumar ¹ , Mr. Satish Kumar Singh ² , Bhanu Pant ²	<u>Dr Eleonora D'Elia</u> ', Miss May Hsim Lay', Dr Claudio Ferraro ¹ , Mr Ezra Feilden ¹ , Prof Eduardo Saiz ¹
	¹ Department of Physics. Chemistry and Biology (IFM), Linköping University, Linköping, Sweden, ¹ Materials Science and Engineering, KTH - Royal Institute of Technology, Stockholm, Sweden, ³ Department of Physics and Astronomy, Uppsala University, Uppsala, Sweden	Indian Institute of Technology Madras, Chennai, India, ² Vikram Sarabhai Space Centre, Trivandrum, India	'Imperial College London, London, United Kingdom
	MODELING DIFFUSION OF ADSORBATES IN NANOPOROUS MATERIALS	LOW TEMPERATURE SUPERPLASTICITY OF NEAR 8 TITANIUM ALLOY WITH ULTRAFINE GRAINED STRUCTURE	SELF-ASSEMBLED PEPTIDES AND PROTEINS AS SCAFFOLDS FOR CELL ATTACHMENT AND PROLIFERATION
15.20	Prof. An Ghysels	<u>Evgeny Naydenkin</u> ¹ , Il'ya Ratochka ¹ , Ivan Mishin ¹ , Olga Lykova ¹	Prof. Anna Mitraki¹². Mr. Graziano Deidda¹². Ms. Ariadne Prigipaki¹². Mr. Sai Vamshi Jonnalagadda³. Mr. Jacob Spies³, Dr. Anthi Ranella¹². Dr. Alexandros Selimis¹². Prof. Phanourios Tamamis³
	'Center For Molecular Modeling, Ghent University, Gent, Belgium	Institute of Strength Physics & Materials Science SB RAS, Tomsk, Russian Federation	'University of Crete, Heraklion, Greece, 'IESU/FORTH, Heraklion, Greece, 'Texas A&M University, College Station, U.S.A.
	MODELING THE LONG-TERM BEHAVIOR OF VACANCY COMPLEXES IN GRAPHENE	DEVELOPMENT OF NEW PARTICULATE REINFORCED LIGHT METALS AND CAST PROCESSES FOR THE PRODUCTION OF COST EFFECTIVE STRUCTURAL COMPONENTS	NEWLY DEVELOPED UV-CURABLE OPTICAL ADHESIVES BASED ON VEGETABLE OIL EPOXIES
15.40	Enrique Martinez Saez¹, Christian Negre¹, Danny Perez¹, Marc Cawkwell¹, Arthur Voter¹, Anders Niklasson¹	Dr. Pedro Egizabal ¹ , Dr. Maider García de Cortázar ¹ , Dr. Iban Vicario ¹ , <u>Mr. Mikel Merchán</u> ¹	Prof. Seiko Mitachi ¹ , Mr. Shunichiro Akimoto ¹ , Mr. Norio Murata ¹ , Dr. Alice Mija ²
	'Los Alamos National Laboratory, Los Alamos, United States	'Tecnalia Research & Innovation, Danastia- San Sebastian, Spain	¹ Tokyo Universty Of Technology, 1404-1 Katakura, Hachioji, Tokyo, Japan, ² Universite Nice Sophia Antipolis, CNRS, ICN-UMR 7272, Parc Valrose, France
	MICROSCOPIC PHASE-FIELD MODELING OF HCP FCC INTERFACES	MANUFACTURING OF MICROPOROUS AND HYBRID MICROPOROUS/ DENSE WALLS BY ELECTRON BEAM MELTING FOR SURFACE COOLING OF COMBUSTION CHAMBERS. EFFICIENCY ASSESSMENT THROUGH AEROTHERMAL BENCH TESTING	BIOMIMETIC STRUCTURES VIA SELF-ORGANIZATION IN MULTIPLE-SCAN, FEMTOSECOND-LASER IRRADIATED SURFACES
16.00	Marc-Antoine Louchez ¹ , <u>Dr Ludovic Thuinet</u> ¹ . Dr Rémy Besson ¹ , Professor Alexandre Legris ¹	Oceane Lambert ¹ , Cecile Davoine ¹ , Remy Dendievel ² , Philippe Reulet ³ , Olivier Leon ³	Dr. Camilo Florian ¹ , Dr. Daniel Puerto ¹ , Mr. Yasser Fuentes-Edfuf ¹ , Mr. Evangelos Skoulas ² , Dr. Emmanuel Stratakis ² , <u>Prof. Javier Solis</u> ¹ , Dr. Jan Siegel ¹
	'Université de Lille, Lille, France	¹ Onera - The French Aerospace Lab, Chatillon, France, ² Grenoble University & CNRS, SIMaP/GFM2, Saint-Martin-d'Hères, France, ³ Onera - The French Aerospace Lab, Toulouse, France	'Laser Processing Group, Instituto de Óptica-CSIC, Madrid, Spain, ² Insti- tute of Electronic Structure and Laser (IESL-FORTH), Vassilika Vouton, Heraklion, Greece
	ANOMALOUS OPTICAL RESPONSE IN ATOMICALLY THIN INSE	SURFACE POST-TREATMENT OF ADDITIVE MANUFACTURED STRUCTURAL PARTS FOR AREROSPACE APPLICATION	PROCESSING OF BIO-INSPIRED NANOCOMPOSITES BY COLLOIDAL SELF-ASSEMBLY OF CHITIN NANOPARTICLES AND INORGANIC SPECIES
16.20	<u>Dr Viktor Zólyomi¹</u>	<u>Dring. Hubertus Lohner</u> ¹, DrIng. Tobias Mertens¹	Dr Bruno Alonso ¹ , Dr Laura Cardoso ¹ , Dr Krassimir Kostov ² , Dr Alexander Sachse ¹ , Pr Emmanuel Belamie ^{1,3}
	¹ University Of Manchester, United Kingdom	'Airbus. Bremen, Germany	'ICGM - MACS, Montpellier, France, 'Institute of General and Inorganic Chem- istry - Bulgarian Academy of Sciences, Sofia, Bulgaria, ³ EPHE - PSL Research University, Paris, France
		MATERIAL BEHAVIOR AND PROPERTIES OF THE SHAPED SHEET PARTS OF TITANIUM ALLOYS DURING HOT CREEP FORMING	HIERARCHICAL VASCULAR NETWORKS FOR ADDITIVE MANUFACTURING
16.40		Tarik Nawaya ¹ , Dr. Axel Von Hehl ² , Prof. Hans-Werner Zoch ³	Dulce M. Aguilar-Garza ¹ , Alex W. Justin ¹ , Dr Athina E. Markaki ¹
		¹IWT-Bremen, Bremen, Germany, ²IWT-Bremen, Bremen, Germany, ³IWT-Bremen, Bremen, Germany	¹ University of Cambridge, Cambridge, United Kingdom





	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
P1	Tuesday, September 19, 2017
• •	Symposium A.3: Functional Polymers and Related (Nano)Composites
A3-P-TUE-P1-1	OF POLYPROPYLENE (PP) /GLASS SPHERES/MA-g-PP POLYMER COMPOSITES
AS-F-IOL-FI-I	Prof.dr. Munir Tasdemir ¹ , Aslihan Aydin ¹ 'Marmara University, Istanbul, Turkey
A3-P-TUE-P1-2	PDMAEMA-b-PLMA-b-POEGMA TRIBLOCK TERPOLYMERS: SYNTHESIS, QUATERNIZATION AND COMPLEXATION WITH DNA
A3-F-10L-F1-2	MSc. Athanasios Skandalis ¹ , Dr. Stergios Pispas ¹ 'National Hellenic Research Foundation, Athens, Greece
	NEW APPLICATION OF ALICYCLIC POLYIMIDE FILMS IN ELECTRONICS
A3-P-TUE-P1-3	Prof. Natalia Korobova ¹ , Prof. Valentina Kravtsova ² , Prof. Sergey Timoshenkov ¹ , Prof. Mayra Umersakova ² 'National Reseaech University of Electronic Technology MIET, Zelenograd, Moscow, Russian Federation,
	² A.B. Bekturov Institute of Chemical Science, Almaty, Kazakhstan
	INVESTIGATION OF NOVEL POLY(ETHYLENE FURANOATE)-CO-POLY(ETHYLENE ADIPATE) RANDOM COPOLYESTERS
A3-P-TUE-P1-4	Mrs Maria Nerantzaki ¹ , Mr Lazaros Papadopoulos ¹ , Mr Andreas Magaziotis ¹ , Mr Dimitrios Bikiaris ¹ 'Laboratory of Organic Chemical Technology, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece
	MELT FUNCTIONALISATION OF POLYPROPYLENE AS AN INNOVATIVE UP-CYCLING PROCESS
A3-P-TUE-P1-5	Prof. Vasiliki-Maria Archodoulaki ¹ , Florian Kamleitner ¹ , Dr. Bernadette Duscher ¹ , Dr. Thomas Koch ¹ , Prof. Simone Knaus ¹ 1TU Wien, Vienna, Austria
	THE THERMAL AND ELECTRICAL PROPERTIES OF A POLYMER NANOCOMPOSITE
	INCORPORATING AN ORGANICALLY-MODIFIED MMT CLAY
A3-P-TUE-P1-6	Mrs Allison Shaw ¹ , Dr. Suvi Virtanen ¹ , Prof. Alun Vaughan ¹ , Dr. Thomas Andritsch ¹ 'University Of Southampton, Southampton, United Kingdom
	POLYETHYLENE MMM CONTAINING ZEOLITES FOR GAS SEPARATION TECHNOLOGIES Ms. Maria Helena da Silva Reis¹, Dr. Nara Regina S. Basso¹,
A3-P-TUE-P1-7	Dr. Marçal J. Rodrigues Pires ¹ , Dr. Denis Rodrigue ²
	¹Pontifícia Universidade Católica Do Rio Grande Do Sul, Porto Alegre, Brasil, ²Université Laval, Quebec, Canada
	EFFECT OF MOISTURE AND FILLER CONTENT ON THE DIELECTRIC RESPONSE OF PA6/BOEHMITE ALUMINA NANOCOMPOSITES
A3-P-TUE-P1-8	Georgia Tomara ¹ , Dr. Panagiota Karahaliou ¹ , Prof. Georgios C. Psarras ² , Prof. Stavroula Georga ¹ , Prof. Christofors Krontiras ¹ , Laszlo Lendvai ³ , Prof. Dr. h.c. Jozsef Karger-Kocsis ^{3,4}
	¹ Department of Physics, University of Patras, 26504, PATRAS, Greece, ² Department of Materials Science, University of Patras, 26504, PATRAS, Greece, ³ Department of Polymer Engineering, Faculty of Mechanical Engineering, Budapest University of Technology and Economics, Műegyetem rkp. 3, H-1111, Budapest, Hungary, ⁴ MTA-BME Research Group for Composite Science and Technology, Műegyetem rkp. 3, H-1111, Budapest, Hungary
	SYNTHESIS, CHARACTERIZATION AND THERMAL ANALYSIS OF HIGH DENSITY POLYETHYLENE/GRAPHENE NANOCOMPOSITES
A3-P-TUE-P1-9	<u>Evangelia Tarani¹,</u> Zoe Terzopoulou², Andreas Wurm³, Christoph Schick³, Dimitrios N. Bikiaris², Konstantinos Chrissafis¹, George Vourlias¹
	'Physics Department, Aristotle University of Thessaloniki, GR 54124, Greece, ² Department of Chemistry, Laboratory of Polymer Chemistry and Technology, Aristotle University of Thessaloniki, GR 54124, Greece, ³ University of Rostock, Institute of Physics, Albert Einstein Str. 23-24, 18059 Rostock, Germany

TIME: 13:00-15:00 ROOM: FOYER, E1/M1 Tuesday, September 19, 2017 Ρ1 Symposium A.3: Functional Polymers and Related (Nano)Composites THE EFFECT OF BLOCK COPOLYMER ON DISPERSION AND FRACTURE TOUGHNESS OF CARBON NANOTUBES EPOXY NANOCOMPOSITES A3-P-TUE-P1-10 Mrs. Marcia Schuster¹, Mr. Luiz Coelho² ¹Center of Technological Science, Santa Catarina State University, Joinville, Brasil, ²Center of Technological Science, Santa Catarina State University, Joinville, Brasil DEVELOPMENT OF SILICA-BASED FILLERS AND NANOCOMPOSITES FOR POWDER COATINGS APPLICATIONS <u>Dr. Apostolos Enotiadis</u>¹, PhD student Lamprini Boutsika¹, PhD student Christos Tampaxis¹, MSc Kalliopi Krassa², Dr. Charalambos Varelas², MSc Elisa Maisano³, Dr. Theodore Steriotis¹, Δ3_P_THF_P1_11 Dr. Georgia Charalambopoulou¹ ¹National Center For Scientific Research "DEMOKRITOS", Athens, Greece, ²Megara Resins S.A., Megara, Greece, ³SBS Steel Belt Systems S.r.l. - Powder Coating Division, Villafranca Tirrena, ITALY EFFECT OF ELECTRON IRRADIATION ON THE PROPERTIES OF COMPOSITE AND SILVER METALIZED POLYIMIDE FILMS <u>Professor Natalia Korobova</u>¹, Ph.D Abyl Muradov², Ph.D. student Assem Kyrykbayeva², Professor Gulmira Yar-Mukhamedova², Professor Kanat Mukashev² Δ3-P-TUF-P1-12 ¹National Reseaech University of Electronic Technology MIET, Zelenograd, Moscow, ²Al-Farabi Kazakh National University, Almaty, Kazakhstan INVESTIGATION AND COMPARISON OF HOT STAMPING PROCESS PARAMETERS IN UP&DOWN MACHINING ON ABS MATERIALS UNDER EFFECTS OF DIFFERENT WEATHER CONDITIONS A3-P-TUE-P1-13 Prof.dr. Munir Tasdemir¹, M. Alper Agca ¹Marmara University, Istanbul, Turkey POLYPROPYLENE/WASTE UREA FORMALDEHYDE POLYMER BLENDS: EFFECTS OF POWDER CONTENT ON FRICTION, WEAR AND MORPHOLOGICAL BEHAVIORS A3-P-TUE-P1-14 Prof.dr. Munir Tasdemir¹, Ridvan Karakus ¹Marmara University, Istanbul, Turkey SELF-POLYMERISABLE PLA-BASED COMPOSITES A3-P-TUE-P1-15 <u>Dr Sofia Karamanou</u>1, Dr George Vekinis1 ¹Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Agia Paraskevi Attikis, Greece PLA-BASED BIODEGRADABLE HYBRID COMPOSITES WITH CERAMIC AND NATURAL FIBRE REINFORCEMENTS A3-P-TUE-P1-16 **<u>Dr Panayiotis Georgiopoulos</u>**¹, Dr George Vekinis¹ ¹Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Agia Paraskevi Attikis, Greece AGING IN WATER AND IN AN ALKALINE MEDIUM OF (EPOXY/ PHENOLIC) BLEND REINFORCED WITH CARBON FIBRE AND 0-MWCNTs NANOCOMPOSITES: EXPERIMENTAL STUDY AND MODELLING PhD. Juan Pablo Morales Arias¹, PhD. Eliana Agaliotis¹, PhD. Mariano Martin Escobar², PhD. Analia Vazquez¹ A3-P-TUE-P1-17 ¹Instituto de tecnologia en polimeros y nanotecnologia (ITPN), (UBA-CONICET), Buenos Aires, Argentina,

STUDY OF THE DIELECTRIC RELAXATION SPECTRUM OF POLYOXYMETHYLENE/POLYURETHANE/LAYERED SILICATES (POM/PU/LS) NANOCOMPOSITES Georgia Tomara¹, Dr Panagiota Karahaliou¹, Prof Georgios C. Psarras², Prof Stavroula Georga¹, Prof Christofors Krontiras¹, Prof. Dr.-Ing. habil. Suchart Siengchin³, Prof. Dr. h.c. Jozsef Karger-Kocsis⁴,5 ¹Department of Physics, University of Patras, 26504, PATRAS, Greece, ²Department of Materials Science, University of Patras, 26504, PATRAS, Greece, ³King Mongkut's University of Technology North Bangkok, Krung Thep, Bangkok, Thailand, ⁴Department of Polymer Engineering, Faculty of Mechanical Engineering, Budapest University of Technology and Economics, Műegyetem rkp. 3, H-1111, Budapest, Hungary, ⁵MTA-BME Research Group for Composite Science and Technology, Műegyetem rkp. 3, H-1111, Budapest, Hungary

²Instituto Nacional de Tecnología Industrial (INTI), Buenos Aires, Argentina

A3-P-TUE-P1-18

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
Pl Pl	Tuesday, September 19, 2017
••	Symposium A.3: Functional Polymers and Related (Nano)Composites
	THE EFFECT OF CLAY INCORPORATION ON THE SURFACE CHARGE TRANSPORT OF CORONA-CHARGED EPOXY/CNTs NANOCOMPOSITES
A3-P-TUE-P1-19	Mr Adam Stimoniaris ¹ , Mr Constandinos Delides ¹
	¹ Department of Environmental Engineering, Western Macedonia University of Applied Sciences, Kozani, Greece
	EXPERIMENTAL VERIFICATION OF FRACTIONAL MODELLING OF THE VISCOELASTIC RESPONSE IN POLYMER BIOMATERIALS
A3-P-TUE-P1-20	<u>Dr. Anastasios Lazopoulos</u> ¹, Dr. Dionysios Mouzakis¹
	¹Evelpidon Hellenic Army Academy, Kallitehnoupolis, Greece
	EFFECT OF WATER CONTENT ON THE MECHANICAL PROPERTIES OF POLYAMIDE-6
A3-P-TUE-P1-21	Eszter Kókai ¹ ¹ Pallasz Athéné University, Kecskemét, Hungary
	EPOXY RESIN/TIC NANOCOMPOSITES: MECHANICAL AND ELECTRICAL CHARACTERISATION
A3-P-TUE-P1-22	Georgia Tomara ¹ , Konstantia Papalexopoulou ¹ , Vasiliki Alexiou ¹ , Glykeria A. Visvini ¹ ,
	Constantinos Fiotakis ² , Theodoros G. Velmachos ² , Sotiris . G. Stavropoulos ² ¹Department of Physics, University of Patras, 26504, PATRAS, Greece, ²Department of Materials Science, University of Patras, 26504, PATRAS, Greece
	POLYMERIC MICROSPHERES CONTAINING MESOPOROUS CELLULAR FOAM FOR LONG ACTING INJECTABLE RELEASE FORMULATIONS OF PALIPERIDONE ANTIPSYCHOTIC DRUG
A3-P-TUE-P1-23	Dr. Stavroula Nanaki¹, Professor Dimitris Bikiaris¹, Theodoros Tsiaprantas Valmas², Assoc. Professor Eleni Pavlidou ³
	¹ Lab. of Polymer Chemistry & Technology, Chemistry Dept, Aristotel University Of Thessaloniki, Thessaloniki, Greece, ² Physical Education & Sports Science Faculty, Dimocritus University of Thrace, Komotini, Greece, ³ Lab. of Scanning Electron Microscopy, Aristotel University of Thessaloniki, Thessaloniki, Greece
	THERMAL CHARACTERIZATION OF POLYURETHANE UREA NANOCOMPOSITES
A3-P-TUE-P1-24	Eng Alneira Cuellar Burgos ¹ , Eng Fabio Augusto Mesa Rueda ¹
	¹Laboratorio de Polimeros y Materiales Compuestos, Universidad Nacional De Colombia, Manizales, Colombia
	BIOMASS DERIVED FEEDSTOCK FOR POROUS CARBONACEOUS FRAMEWORKS
A3-P-TUE-P1-25	<u>Pierluigi Tosi</u> ^{1,2} , Prof. Dr. Alice Mija ¹ , Prof. Dr. Luc Vincent ¹ , Dr. Ed de Jong ² 'University Of Nice, Nice, France, 2Avantium, Amsterdam, The Netherlands
	FROM SENSING TO DOSIMETRY: IMMOBILIZED SINGLE-STRANDED DNA ON SURFACES AS VERSATILE SENSOR FOR PROTEIN ACTIVITY AND IRRADIATION
A3-P-TUE-P1-26	Marc Benjamin Hahn¹¹Bundesanstalt für Materialforschung, Berlin, Germany
A3-P-TUE-P1-27	PLATFORM MOLECULES FOR EPOXY SYNTHESIS
	Angela Marotta ^{1,2} , Veronica Ambrogi ¹ , Alice Mija ² ¹ Università degli Studi di Napoli Federico II, Naples, Italy, ² Université Nice Sophia Antipolis, Nice, France
	THIOPHENE BASED THREE-DIMENSIONAL POROUS ORGANIC POLYMER FOR THE DETECTION OF PEROXIDE EXPLOSIVES
A3-P-TUE-P1-28	Mr. Shuai Li ¹ , Dr. Pengfei Li ^{1,2} , Dr. Bo Wang ¹
	¹ Beijing Institute Of Technology, School of Chemistry and Chemical Engineering, Beijing, China, ² Beijing Institute Of Technology, Advanced Research Institute for Multidisciplinary Science, Beijing, China

	TIME: 13:00–15:00 ROOM: FOYER, E1/M1
Pl	Tuesday, September 19, 2017
PI	Symposium A.5: Colloidal Nanoparticles: Synthesis, functionalization and applications
	CATIONIC SUBSTITUTION IN COLLOIDAL CsPbX NANOCRYSTALS
A5-P-TUE-P1-1	Mr Peter Shaw ¹ , Dr Michaela Meyns ² , Professor Martin Charlton ¹ , Professor Pavlos Lagoudakis ¹ , Dr Andreu Cabot ^{2,3} , Dr Antonios Kanaras ¹ 1 University Of Southampton, Southampton, United Kingdom, ² Catalonia Institute for Energy Research (IREC),
	Barcelona, Spain, ³ ICREA, Pg. Lluis Companys 23, Barcelona, Spain
	THE POSSIBILITY OF OBTAINING CORE/SHELL STRUCTURE IN SYSTEM NiFe204/ZnFe204
A5-P-TUE-P1-2	Phd Marija Milanovic¹, Phd Ivan Stijepovic¹, Phd Vladimir Srdic¹
	¹ University Of Novi Sad, Faculty Of Technology, Department Of Materials Engineering, Novi Sad, Serbia
	CONTROL OF NANOPARTICLE CHARGING MECHANISM IN NONPOLAR SOLVENTS TO DEPOSIT METAL NANOPARTICLE MONOLAYERS BY ELECTROPHORESIS
A5-P-TUE-P1-3	Ondřej Černohorský¹, <u>Jan Grym</u> ¹, Roman Yatskiv¹, Viet Hung Pham², James H Dickerson²
	¹Institute of Photonics and Electronics of the CAS, Prague, Czech Republic, ²Center for Functional Nanomaterials, Brookhaven National Laboratory, USA
	SYNTHESIS AND FEATURES OF COBALT-BASED MAGNETIC NANOPARTICLES FOCUSING ON BIOMEDICAL APPLICATIONS
A5-P-TUE-P1-4	MSc Anastasios Kotoulas ¹ , Dr. Catherine Dendrinou-Samara ² , Dr. Mavroeidis Angelakeris ¹ , Dr. Orestis Kalogirou ¹
	¹ Department of Physics, Aristotle University of Thessaloniki, 54124, Greece, Thessaloniki, Greece, ² Department of Chemistry, Aristotle University of Thessaloniki, 54124, Greece, Thessaloniki, Greece
	CYANOVINYL CARBAZOLE AS A REVERSIBLE CROSS-LINKER FOR DNA-Aunp ASSEMBLIES
A5-P-TUE-P1-5	Dr. Pascal Harimech ¹ , Dr. Afaf El-Sagheer ² , Prof. Tom Brown ² , Assoc. Prof. Antonios Kanaras ¹
	¹Physics and Astronomy, University of Southampton, Southampton, UK, ²Department of Chemistry, University of Oxford, Oxford, UK
	SYNTHESIS OF METALLIC NANOPARTICLES BY ELECTRICAL DISCHARGE IN THE LIQUID MEDIUM
A5-P-TUE-P1-6	Ing. Jakub Horak ¹ , Anton Nikiforov ² , Christophe Leys ² , Ke Vin Chan ² , Frantisek Krcma ¹
	Brno University Of Technology, Faculty of Chemistry, Institute of Physical and Applied Chemistry, Purkynova 464/118, 612 00, Brno, Czech Republic, Chent University, Faculty of Engineering and Architecture, Department of Applied Physics, Sint-Pietersnieuwstraat 41, Gent 9000, Gent, Belgium
	TARGETED DETECTION OF MRNA BIOMARKERS USING GRAPHENE OXIDE AND UPCONVERSION NANOPARTICLES
A5-P-TUE-P1-7	Mr Patrick Vilela¹, Dr Afaf El-Sagheer³, Prof. Tom Brown³, Dr Timothy Millar², Prof. Otto Muskens¹, Assoc. Prof. Antonios Kanaras ¹
	¹ Institute for Life Sciences, Physics and Astronomy, University of Southampton, Southampton, UK, ² Faculty of Medicine, University of SOuthampton, Southampton, UK, 3Department of Chemistry, University of Oxford, Southampton, UK
	NANO JANUS HETERODIMERS VIA LASER-INDUCED PHOTOCHEMICAL DEPOSITION IN A LAB ON A CHIP CONFIGURATION
A5-P-TUE-P1-8	Qingguo BAI ^{1,2} , Dr. Ivan Shupik ^{1,2} , Dr. Jean Pierre Delville ² , Dr. Marie Helene Delville ¹
	¹ICMCB, CNRS UPR 9048, Universite of Bordeaux, Pessac, France, ²LOMA, UMR 5798, Université de Bordeaux/CNRS, Talence, France
	PEGYLATED CuFe NPs AS ANTIMICROBIAL AGENTS
A5-P-TUE-P1-9	MSc Orestis Antonoglou ¹ , PhD Kleoniki Giannousi ¹ , Assoc. Prof. Anastasia Pantazaki ² , Assoc. Prof. Ioannis Arvanitidis ³ , PhD Stefanos Mourdikoudis ⁴ , Prof. Catherine Dendrinou-Samara ¹
	¹ Lab of Inorganic Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece, ² Lab of Biochemistry, Department of Chemistry, Aristotle University of Thessaloniki, Greece, ³ Department of Physics, Aristotle University of Thessaloniki, Thessal

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1		
Tuesday, September 19, 2017			
FI	Symposium A.5: Colloidal Nanoparticles: Synthesis, functionalization and applications		
	COATED Cu-BASED NANOPARTICLES AS PLANT ANTIMICROBIAL AGENTS		
A5-P-TUE-P1-10	Ph.D candidate Christina Gkanatsiou ¹ , Assis. Prof. Katerina Karamanoli ² , Prof. Urania Menkissoglu-Spiroudi ³ , Prof.Catherine Dendrinou-Samara ¹ ¹ Inorganic Chemistry Lab, Chemistry Department, Aristotle University of Thessaloniki, Greece, 54124 Thessaloniki, Greece, Thessaloniki, Greece, ² Agricultural Chemistry Laboratory, Faculty of Agriculture, School of Agriculture, Forestry and Environment, Aristotle University of Thessaloniki, 54124, Thessaloniki, Thessaloniki, Greece, Thessaloniki, 54124, Thessaloniki, Thessaloniki, Greece		
	Cu ₂ 0 & CuFeO ₂ Nanoparticles: Synthetic aspects and antimicrobial properties		
A5-P-TUE-P1-11	A.G. Ampatzidis ¹ , O. Antonoglou ¹ , J. Arvanitidis ² , S. Mourdikoudis ^{3,4} , A. Pantazaki ¹ , C. Dendrinou-Samara ¹ Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece, ² Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece, ³ UCL Healthcare Biomagnetic and Nanomaterials Laboratories, London, United Kingdom, ⁴ Biophysics Group, Department of Physics and Astronomy, University College London (UCL), London, United Kingdom		
	SYNTHESIS, CHARACTERIZATION AND ANTIMICROBIAL ACTIVITY OF PEGYLATED Cuzn/C NANOPARTICLES		
A5-P-TUE-P1-12	A. Theodoropoulou ¹ , O. Antonoglou ¹ , E. Pavlidou ² , G. Vourlias ² , A. Pantazaki ¹ , C. Dendrinou-Samara ¹ Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece, Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece		
	HIGHLY STABLE HYDROPHILIC Zn-DOPED FERRITE NANOPARTICLES AS MRI AGENTS		
A5-P-TUE-P1-13	T. Karamova ¹ , V. Georgiadou ¹ , A. Makridis ² , C. Dendrinou-Samara ¹		
	Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece, Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece		
A5-P-TUE-P1-14	A GREEN ONE-STEP FABRICATION OF FLUORESCENT NANOPARTICLES FOR BIOIMAGING APPLICATION BY PHOTOINITIATED AQUEOUS FATTY ACID DIMERIZATION-INDUCED SELF-ASSEMBLY		
	Ms. Qin Dai ¹ , Dr. He Zhao ¹ , Prof. Hongbin Cao ¹		
	'Institute of Process Engineering, Chinese Academy of Sciences, Beijing, China		
A5-P-TUE-P1-15	LOW-TEMPERATURE BENCHTOP-SYNTHESIS OF ALL-INORGANIC PEROVSKITE NANOWIRES		
	Athanassia Kostopoulou¹, M. Sygletou¹, Konstantinos Brintakis¹,², Alexandros Lappas¹, Emmanuel Stratakis¹,³		
	¹ Institute of Electronic Structure and Laser, Foundation for Research and Technology , Vassilika Vouton, Heraklion, Greece, ² Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece, ³ Department of Materials Science and Technology, University of Crete, Vassilika Vouton, Heraklion, Greece		

	TIME: 13:00–15:00 ROOM: FOYER, E1/M1
Pl	Tuesday, September 19, 2017
	Symposium A.6-I: Advanced Materials for Space Exploration/Part 1
	IDENTIFICATION OF PARAMETERS INFLUENCING THE GLAZE LAYER EVOLUTION AT HIGH TEMPERATURE FOR A WASPALOY/RENÉ125 CONTACT UNDER FRETTING WEAR SOLICITATIONS
A6-I-P-TUE-P1-1	Dr. Fathia Alkelae ¹
	[†] Ecole Centrale de Lyon, Lyon, France
	ACCELERATED AGING AND DEGRADATION ANALYSIS OF THPP, BKN03, AND ZPP
A6-I-P-TUE-P1-2	<u>Dr. Jong Gyu Paik</u> ¹ , Dr. Byunzg Tae Ryu ¹ , Senior Researcher Zaeill Kim ¹
A0-I-F-IUE-FI-Z	¹ Agency For Defense Development, Daejeon, South Korea
	CHARACTERIZATION OF THE LONG TERM SERVED BORON-POTASSIUM NITRATE IGNITER MATERIAL
A6-I-P-TUE-P1-3	<u>Dr. Byung Tae Ryu</u> ¹ , Dr. Jong Gyu Paik ¹ , Dr. Zaill Kim ¹
7677 76277 6	¹ Agency Defense Development, Daejeon, South Korea
	SELECTION OF MATERIALS AND PANELS FOR INTEGRATED THERMAL PROTECTION SYSTEMS BY THERMOMECHANICAL ANALYSIS
A6-I-P-TUE-P1-4	<u>Dr. Oleg Udovyk</u> ¹ , Prof. Genadiy Frolov ¹
	¹ Institute for Problems of Material Science of NASU, Kiyv, Ukraine

	TIME: 13:00-15:00 R00M: F0YER, E1/M1
Pl	Tuesday, September 19, 2017
	Symposium A.7-I: Functional Nanomaterials for Novel Applications/Part 1
	SURFACTANT EFFECT ON THE MORPHOLOGY OF A NANOCRYSTALLINE HYDROXYAPATITE PREPARED BY HYDROTHERMAL SYNTHESIS FROM INDUSTRIAL WASTE PHOSPHOGYPSUM. ITS APPLICATION IN WASTEWATER TREATMENT
A7-I-TUE-P1-1	Miss Hiba Bensalah ^{1,2} , Dr Maged Bekheet ¹ , Pr. Dr. Saad Alami Younssi ² , Pr.Dr. Mohamed Ouammou ² , Pr.Dr. Aleksander Gurlo ¹ 'Technical University Of Berlin, Berlin, Germany, ² University Hassan II of Casablanca, Casablanca, Morocco
	DIRECTIONAL FREEZING AND PARTICLE ALIGNMENT OF NANOCELLULOSE-BASED SUPER-INSULATING FOAMS
A7-I-TUE-P1-2	Pierre Munier ¹ , Korneliya Gordeyeva ¹ , Dr. Andreas Fall ^{1,2} , Yingxin Liu ¹ , Prof. Lennart Bergström ¹ 'Stockholm University, Stockholm, Sweden, ² Innventia AB, Stockholm, Sweden
	PERESPECTIVE METHOD FOR RECEIVING OF NANOSTRUCTURED Zn-Al ALLOYS
A7-I-TUE-P1-3	<u>Dr. Grygoriy Dmytriv</u> ¹ , Prof. Volodymyr Pavlyuk ¹ , Prof. Helmut Ehrenberg ²
	¹Ivan Franko National University of Lviv, Lviv, Ukraine, ²Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen , Germany
	SYNTHESIS BY ION BEAM SPUTTERING AND CHARACTERIZATION OF Cr2AIC THIN FILMS
A7-I-TUE-P1-4	<u>Dr. Ovidiu Crisan</u> ¹ , Dr. Alina Daniela Crisan ¹
	'National Institute For Materials Physics, Magurele, Romania, Magurele, Romania
	NIR OPTICAL AND X-RAY EXCITATION OF LUMINESCENCE IN Er DOPED OXIDE NANOPARTICLES FOR SPECTRAL CONVERTERS AND THERANOSTICS
A7-I-TUE-P1-5	Mr Daniel Avram ^{1,2} , Dr. Bogdan Cojocaru ³ , Dr. Mihaela Florea ⁴ , Dr. Ion Tiseanu ¹ , Dr. Carmen Tiseanu ¹
	¹ National Institute for Laser, Plasma & Radiation Physics (INFLPR), Magurele, Romania, ² University of Bucharest, Faculty of Physics, Bucharest, Romania, ³ University of Bucharest, Physics, Bucharest, Romania, ⁴ National Institute of Materials Physics, Bucharest, Romania
	DEVELOPMENT OF LAYERED DOUBLE HYDROXIDES FOR HEAVY METAL REMOVAL
A7-I-TUE-P1-6	Aikaterini Kamou¹, Konstantinos Simeonidis¹, Dimitrios Karfaridis¹, Eleni Pavlidou¹, Manassis Mitrakas², Georgios Vourlias¹
	¹ Department of Physics, Aristotle University Of Thessaloniki, 54124 Thessaloniki, Greece, ² Analytical Chemistry Laboratory, Department of Chemical Engineering, Aristotle University of Thessaloniki , 54124 Thessaloniki , Greece
	AG ULTRAFINE NANOPARTICLE-GRAPHENE SUBSTRATES FOR RAMAN AMPLIFICATION: SIZE AND STABILITY ISSUES
A7-I-TUE-P1-7	Licenciada Montserrat Xochitl Aguilar-Pujol ¹ , Dr. Félix Jimenez-Villacorta ¹ , Dr. Esteban Climent-Pascual ¹ , Rafael Ramírez-Jiménez ^{1,2} , Dr Javier Bartolomé-Vilchez ¹ , Dr. Rafael Jiménez-Riobóo ¹ , Licenciado Leo Alvarez-Fraga ¹ , Dr Carlos Prieto ¹ , Dr Alicia de Andrés ¹
	¹ Instituto de Ciencia de Materiales de Madrid, CSIC, Madrid, Spain, ² Departamento de Física, Universidad Carlos III de Madrid, Madrid, Spain
	METAL-ORGANIC GELS: SOFT MATERIALS FOR A HARD WORLD
A7-I-TUE-P1-8	<u>Daniel Vallejo Sánchez</u> ¹, Jonathan Albo², Garikoitz Beobide¹, Pedro Castaño¹, Oscar Castillo¹, Antonio Luque¹, Sonia Pérez-Yáñez¹
	¹ Basque Country University, UPV-EHU, Leioa, Spain, ² Cantabria University, UC, Santander, Spain
	BAND GAP AND ELECTRONIC STRUCTURE OF THE GROUP II-IV NITRIDE MgSiN2
A7-I-TUE-P1-9	Mr James Quirk ¹ , Dr Mikael Råsander ¹ , Miss Shiny Mathew ² , Mr Jonathan Rackham ¹ , Dr Robert Palgrave ² , Dr Michelle Moram ¹
A/ 1 10E-11-7	Department of Materials, Imperial College London, London, United Kingdom, Department of Chemistry, University College London, London, United Kingdom

	TIME: 13:00-15:00 R00M: F0YER, E1/M1
P1	Tuesday, September 19, 2017
	Symposium A.7-I: Functional Nanomaterials for Novel Applications/Part 1
	SOLID-STATE DEWETTING OF Au-Ni BI-LAYER THIN FILMS DEPENDING ON INDIVIDUAL LAYER THICKNESS AND STACKING SEQUENCE
A7-I-TUE-P1-10	Felix Theska ^{1,2} , Dr. Andreas Herz ¹ , Dr. Dong Wang ¹ , Prof. Dr. Dr. Peter Schaaf ¹ 1TU Ilmenau, Ilmenau, Germany, ² UNSW, Sydney, Australia
	KEKI - MODEL SWITCH FOR IN-SITU CHARACTERIZATION OF THE CONTACT
	RESISTANCE OF ELECTRICAL CONTACT MATERIALS
A7-I-TUE-P1-11	DiplIng. Marcus Hopfeld ^{1,2} , DrIng. Diego Gonzales ^{1,2} , Prof. DrIng. Frank Berger ^{1,2} , Prof. Dr. Dr. Peter Schaaf ^{1,2} 'TU Ilmenau, Ilmenau, Germany, ² KEKI - Competence Center for Electrical Contacts Ilmenau, Ilmenau, Germany
	GLYCINE-ORGANIC MATRIX COMBUSTION SYNTHESIS (GLYCINE-OMCS): AN ALTERNATIVE METHOD FOR
	SYNTHESISING NANOSTRUCTURED NICKEL CATALYSTS FOR LIQUID PHASE HYDROGENATION
A7-I-TUE-P1-12	Ms Olga Thoda ^{1,3} , Dr. Galina Xanthopoulou ¹ , Dr.George Vekinis ¹ , Dr. Alexander Chroneos ² ¹ Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Agia Paraskevi Attikis,, Greece, ² Centre for Manufacturing and Materials Engineering, University of Coventry, Coventry, United Kingdom, ³ Faculty of Engineering, Environment and Computing, University of Coventry, Coventry, United Kingdom
	FLAME-SPRAYED NANO-STRUCTURED COATINGS USING POWDERS PRODUCED BY SOLUTION COMBUSTION SYNTHESIS
A7-I-TUE-P1-13	Mr Kosmas Papadopoulos ^{1,2} , Dr. Amalia Marinou ¹ , Dr. Galina Xanthopoulou ¹ , Dr. George Vekinis ¹
	'Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Agia Paraskevi Attikis,, Greece, ² Department of Materials Science and Engineering, University of Ioannina, Ioannina,, Greece
	DIFFERENT ROUTES TO SYNTHESIZE Fe-Ga-O THIN FILMS
A7-I-TUE-P1-14	Dr. Alicia Prados ¹ , Dr. Álvaro Muñoz-Noval ² , Dr. Rocío Ranchal ¹ ¹Dpto. Física de Materiales, Fac. CC. Físicas, Universidad Complutense de Madrid, Madrid 28040, Spain, ²Department of Applied Chemistry, Hiroshima University, Higashi-hiroshima, Japan
	MICROWAVE ABSORPTION PROPERTIES OF 1-ETHYL-3-METHYLIMADAZOLIUM THIOCYANATE AND 1-METHYL-3-PROPYLIMADAZOLIUM BIS TRIFLUOROMETHYLSULFONYL IMIDE IONIC LIQUIDS
A7-I-TUE-P1-15	Mr Kwabena Offeh Gyimah ¹ , Dr Sergio Sanchez Sedago ¹ , Prof. Animesh Jha ¹ , Dr Muhammad Sandhu ² , Prof. Ian Hunter ²
	¹ Institute of Materials Research, University Of Leeds, Leeds, United Kingdom, ² Institute of Microwaves & Photonics, University of Leeds, Leeds, United Kingdom
	SYNTHESIS, CHARACTERIZATION AND METAL SUBSTITUTION IN ALUMINOPHOSPHATE MATERIALS
A7-I-TUE-P1-16	Miss Dana AlShami¹, Dr. Georgia Basina*¹, Mr. Fadi Dawaymeh¹, Dr. Balasubramanian Vaithilingam2, Ms. Abeer AlYafeai³, Ms. Anjana Tharakshmy³, Dr. Georgios Karanikolos N¹, Dr. Yasser Al Wahedi*¹
	'Department of Chemical Engineering, The Petroleum Institute, P.O. Box 2533, UAE, Abu Dhabi, United Arab Emirates, ² Takreer Research Center, Abu Dhabi Oil Refining Company (TAKREER), P.O. Box: 3593, UAE, Abu Dhabi, United Arab Emirates, ³ ADNOC Research & Innovation Center, Petroleum Institute, P.O. Box 2533, UAE, Abu Dhabi, United Arab Emirates
	FAST ELECTROSTATIC-BASED PROTEIN DETECTION USING OPTICAL FIBER SENSORS FUNCTIONALIZED WITH AMPHIPHILIC BLOCK-COPOLYMERS
A7-I-TUE-P1-17	Ms Afroditi Petropoulou ^{1,3} , Mr Tomas Gibson ² , Dr. Efrosyni Themistou ² , Dr. Stergios Pispas ¹ , Dr. Christos Riziotis ¹ 'National Hellenic Research Foundation, Athens, Greece, ² School of Chemistry and Chemical Engineering, Queen's University Belfast, Belfast, United Kingdom, ³ Department of Informatics and Telecommunications, University of Peloponnese, Tripolis, Greece
	HYDROGEN DETECTION PROPERTIES OF NANOPOROUS PALLADIUM SENSOR
A7-I-TUE-P1-18	Mr. Hee-Jun Noh ^{1,2} , Dr. Hyun-Jong Kim ¹ , Prof. Jin-Seong Park ² , Dr. Ho-Nyun Lee ¹ ¹Korea Institute Of Industrial Technology, Yeonsu-gu, South Korea, ² Hanyang University, Seongdong-gu, South Korea

	TIME: 13:00–15:00 R00M: F0YER, E1/M1
P1	Tuesday, September 19, 2017
Г	Symposium A.7-I: Functional Nanomaterials for Novel Applications/Part 1
	OPTICAL PROPERTIES OF Y203 AND ER-DOPED Y203 THIN FILMS
A7-I-TUE-P1-19	Research Asst Fatma UNAL ¹ , Sebahattin Gurmen ¹ , Kursat Kazmanli ¹ , Mustafa Urgen ¹ **Istanbul Technical University, Department of Metallurgical and Materials Engineering, Istanbul, Turkey
	ELABORATION OF AN ELECTRODE MATERIAL BASED ON CARBON PASTE MODIFIED BY COBALT NANOPARTICLES. APPLICATION TO THE DETECTION OF URIC ACID
A7-I-TUE-P1-20	<u>Dr Dehbia Oukil</u> ^{1,2} , Ms Meriouma Araoun ² , Ms Nawel Chouchou ² , Prof Razika Aitout ² , Prof Laid Makhloufi ²
	'Département de T.C.S.N, Faculté des Sciences de la Nature et de la Vie. Université A/Mira , Route Targa Ouzemour, 06000 Bejaia (Algérie), Algeria, ² Laboratoire d'Electrochimie, de Corrosion et de Valorisation Energétique. Université A/Mira , Route Targa Ouzemour, 06000 Bejaia (Algérie), Algeria
	ACTUATION OF DEALLOYED, NANOPOROUS PALLADIUM UPON ELECTROCHEMICAL HYDROGENATION: EFFECTS OF STRAIN RATE AND TYPE OF ELECTROLYTE
A7-I-TUE-P1-21	<u>DiplIng. Markus Gößler</u> ¹ , Dr. Eva-Maria Steyskal ¹ , Prof. Dr. Roland Würschum ¹ 'Institute of Materials Physics, Graz University of Technology, Austria
	NANOMATERIALS-BASED FORCE SENSOR APPLICATION IN HAND-HELD SURGICAL TOOL
A7-I-TUE-P1-22	Dr. Phillip Lee ¹ ¹Korea Institute of Science and Technology, Seoul, South Korea
A7-I-TUE-P1-23	THE QUEST FOR NANO INSULATION MATERIALS APPLYING HOLLOW SILICA NANOSPHZ ERES AND NANOFIBERS
	Mathieu Grandcolas ¹ , Bjørn Petter Jelle ^{2,3} , Tao Gao ² , Ole Martin Løvvik ^{1,4} , Rolf André Bohne ² , Sohrab Alex Mofid ² , Serina Ng ³ , Espen Sagvolden ¹
	¹ Sintef Materials And Chemistry, Oslo, Norway, ² Norwegian University of Science and Technology (NTNU), Trondheim, Norway, ³ SINTEF Building and Infrastructure, Trondheim, Norway, ⁴ University of Oslo (UiO), Oslo, Norway

		TIME: 13:00-15:00	ROOM: FOYER, E1/M1
PI	Tuesday, September 1	9, 201 <i>7</i>	
F 1	Symposium A.8: Materials b	y Design	
A8-P-TUE-P1-1	ELECTRICAL CONDUCTIVITY, SPECIFIC HEAT, AND MAGNETIC IN LaMn1-xCrx03 PEROVSKITE COMPOUNDS	ORDERING	
	Kostas Georgalas ¹ , Assis. Prof. Emmanuel Syskakis ¹ , Alexandros Samartzis ¹ , Nikolaos Biniskos ²		
	¹ Section of Solid State Physics, Department of Physics, National and Kapodis Gr-15784 Zografos, Athens, Greece, ² Julich Centre for Neutron Science, JCN Forschungszentrum Julich Gmb, D-52425 Juelich, Germany		
	ELECTRICAL PROPERTIES OF VO ₂ LAYERS ON Y-ZrO ₂ SUBSTR	ATES	
A8-P-TUE-P1-2	Mr Andreas Theodorou ¹ , Mr Emmanuel Syskakis ¹ Section of Solid State Physics, Department of Physics, National And Kapodis	strian University Of Athens,	Athens, Greece
	SYNTHESIS, THERMAL STABILITY, AND ELECTRICAL CONDUC	TIVITY OF Sr2Pd03	
A8-P-TUE-P1-3	<u>Dr. Emmanuel Syskakis</u> 1, Dimitra Bourazani1, Dr. Dimitrios	Bessas ²	
	¹ Section of Solid State Physics, Department of Physics, National and Kapodis ² Delft University of Technology, Mekelweg 15, 2629 JB Delft, the Netherland		Athens, Greece,
A8-P-TUE-P1-4	STACKING OF CHELATE RINGS		
	Snezana Zaric ^{1,2} , Dusan Malenov ²		
	¹ Texas A&m University At Qatar, Doha, Qatar, ² University of Belgrade, Belgrad	de, Serbia	

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
Pl	Tuesday, September 19, 2017
	Symposium B.2: Light Weight Metals
	MECHANICAL BEHAVIOR OF THREE-DIMENSIONAL PYRAMIDAL ALUMINUM LATTICE MATERIAL
B2-P-TUE-P1-1	Professor Fusheng Han ¹ , Dr. Yingjie Huang ¹ , Dr. Yingying Xue ¹ 'Institute Of Solid State Physics, Chinese Academy Of Sciences, Hefei, China
	MICROSTRUCTURES IN COMMERCIALLY PURE TITANIUM OBTAINED BY INCOMPLETE PHASE TRANSFORMATION
B2-P-TUE-P1-2	Karel Tesař ¹ , Viera Gärtnerová ² , Kamil Daněk ² , Aleš Jäger ² ¹Czech Technical University In Prague, Faculty of Nuclear Sciences and Physical Engineering, Prague, Czech Republic, ²Institute of Physics of the Czech Academy of Sciences, Prague, Czech Republic
	EFFECT OF CROSS SECTIONAL SHAPE OF STRUTS ON THE MECHANICAL PROPERTIES OF ALUMINUM BASED PYRAMIDAL LATTICE STRUCTURES
B2-P-TUE-P1-3	Prof. Fusheng Han ¹ , Dr. Yingjie Huang ¹ , Dr. Yingying Xue ¹ , Dr. Xinfu Wnag ¹ 'Institute Of Solid State Physics, Chinese Academy Of Sciences, Hefei, China
	CORRELATIVE CHARACTERIZATION OF LONG PERIOD STACKING ORDERED (LPSO) PHASE FRACTION IN EXTRUDED MAGNESIUM RARE EARTH ALLOYS
B2-P-TUE-P1-4	Mr. Kyle Nicholson ¹ , Prof. Rimma Lapovok ¹ , Dr. Chunjie Xu ² , Prof. Eugen Rabkin ³ , Prof. Peter Hodgson ⁴
	¹ Institute for Frontier Materials, Deakin University, Geelong, Australia, ² School of Materials Science & Engineering, Xi'an University of Technology, Xi'an, China, ³ Department of Materials Science and Engineering, Technion Israel Institute of Technology, Haifa, Israel, ⁴ Office of DVC (Research), Deakin University, Geelong, Australia
	EFFECT OF TEST CONDITIONS ON NANOINDENTAION DEFORMATION BEHAVIOR OF GUM METAL
B2-P-TUE-P1-5	Yuki Shibayama ¹ , Kohei Onose ¹ , Shigeru Kuramoto ¹ , Takuya Suzuki ² , Eri Nakagawa ² , Takahito Ohmura ³
	¹Ibaraki University, Hitachi, Japan, ²National Institute for Materials Science, Tsukuba, Japan, ³National Institute for Materials Science & Kyushu University, Tsukuba & Fukuoka, Japan
	DEFORMATION MECHANISM ANALYSIS OF SOLUTION TREATED GUM METAL BY IN-SITU TEM COMPRESSION TEST
B2-P-TUE-P1-6	Kohei Onose ¹ , Yuki Shibayama ¹ , Shigeru Kuramoto ¹ , Takahito Ohmura ^{2,3} , Takuya Suzuki ² , Eri Nakagawa ²
	¹Ibaraki University, Hitachi, Japan, ²National Institute for Materials Science, Tsukuba, Japan, ³Kyushu University, Fukuoka, Japan
	INFLUENCE OF GRAIN SIZE AND AMOUNT OF ALUMINUM ON MECHANICAL PROPERTIES IN Mg-Al-Zn BASE ALLOY
B2-P-TUE-P1-7	Yuya Sakaoka ¹ , Takeshi Sudou ¹ , Shigeru Kuramoto ¹ , Akira Kurumada ¹
	¹Ibaraki University, Hitachi, Japan
	EFFECT OF THERMO-MECHANICAL PROCESSING ON MICROSTRUCTURE, MICROHARDNESS AND TENSILE PROPERTIES OF Ti-Nb-Zr-Ta-O ALLOY
B2-P-TUE-P1-9	<u>Bc. Dalibor Preisler</u> ¹ , RNDr., Ph.D. Josef Stráský ¹ , Dr.techn. Fernando Warchomicka ² , Prof. RNDr., CSc. Miloš Janeček ¹
	¹ Charles University In Prague, Department Of Physics Of Materials, Prague, Czech Republic, ² Graz University of Technology, Institute of Materials Science and Welding , Graz, Austria

	TIME: 13:00-15:00 R00M: F0YER, E1/M1
P1	Tuesday, September 19, 2017
	Symposium B.2: Light Weight Metals
B2-P-TUE-P1-10	THE EVALUATION OF MICROSTRUCTURE AND MECHANICAL PROPERTIES AFTER DIFFERENT DEGREES OF PLASTIC DEFORMATION IN 2014 ALLOY
	MSc Eng Milena Koralnik ¹ , PhD Eng Boguslawa Adamczyk-Cieslak ¹ , Prof. PhD Eng Jaroslaw Mizera ¹
	¹Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland
DO D 7115 D4 44	LIQUID METAL ENGINEERING AT THE BRUNEL CENTRE FOR ADVANCED SOLIDIFICATION TECHNOLOGY (BCAST)
B2-P-TUE-P1-11	Mr. Eric Nyberg ¹ , Dr. Chamini Mendis ¹ , Dr. Xinliang Yang ¹ , Dr. Shouxun Ji ¹ , Dr. Zhongyun Fan ¹ 'Brunel University London - BCAST, Uxbridge, United Kingdom
	TENSILE PROPERTIES AND FRACTURE BEHAVIOR OF FRICTION STIR WELDING 2198 AL-Li ALLOY
B2-P-TUE-P1-12	Prof. Yue Ma ¹ , Mengmeng Li ¹ , Dr. Chong Gao ² , Prof. Xiaolan Zeng ¹ Beihang University, Beijing, China, ² Chinalco Research Institute of Science and Technology, Beijing, China
	EFFECT OF Mg ADDITION ON THE MICROSTRUCTURAL CHARACTERISTICS OF AL-SI EUTECTIC ALLOYS
B2-P-TUE-P1-13	Biljana Zlatičanin 'University of Montenegro, Faculty of metallurgy and technology, Podgorica, Montenegro
	CASTING, ROLLING AND FRICTION STIR WELDING IN MAGNESIUM ALLOYS WITH MISCHMETAL ADDITION
B2-P-TUE-P1-14	Dr. Erenilton Pereira Da Silva ¹ , Dr. Ulises Alfaro ² , Engineering Victor Pereira Ferinho ⁴ , Dr. Gullermo Carlos Requena ² , Dr. Haroldo Cavalcante Pinto ³
	¹ State University Of Campinas (UNICAMP), São Carlos, Brazil, ² German Aerospace Center (DLR) Institute of Materials Research, Cologne, Germany, ³ Engineering School of São Carlos, University of São Paulo, Department of Materials Engineering, São Carlos, Brazil, ⁴ Brazilian Nanotechnology National Laboratory, Campinas-SP, Brazil, São Carlos, Brazil
	EFFECT OF ZIRCONIUM ADDITION ON INTERGRANULAR CORROSION OF SEVERELY DEFORMED ALUMINUM ALLOY
B2-P-TUE-P1-15	<u>Dr. Stanislav Krymski</u> y¹, Rafis Ilyasov¹, Aydar Akhiyarov¹, Dr. Elena Avtokratova¹, Dr. Oleg Sitdikov¹, Dr. Michael Markushev¹
	¹Institute For Metals Superplasticity Problems Ras, Ufa, Russian Federation
	MICROSTRUCTURE EVOLUTION AND MECHANICAL PROPERTIES OF WARM-ROLLED TI-AL-Fe ALLOY
B2-P-TUE-P1-16	Yongmoon Lee ¹ , Jong Woo Won ² , Chong Soo Lee ¹ 'Graduate Institute of Ferrous Technology (GIFT), Pohang University of Science and Technology (POSTECH), Pohang, Republic of Korea, ² Titanium department, Korea Institute of Materials Science (KIMS), Changwon, Republic of Korea
B2-P-TUE-P1-17	HIGH MODULUS ALUMINIUM-BASED NANOCOMPOSITES: NEW REQUIREMENT OF AUTOMOTIVE MARKET
D2-F-10E-F1-17	Dr. Sajjad Amirkhanlou ¹ , Dr. Yijie Zhang ¹ , Dr. Shouxun Ji ¹ ¹BCAST, Brunel University London, London, United Kingdom
	EFFECT OF THE Sc AND Zr RICH DISPERSOIDS ON THE PRECIPITATION SEQUENCE IN AI-Cu ALLOYS
B2-P-TUE-P1-18	Doctor Baptiste Rouxel ¹ , Doctor Thomas Dorin ¹ 'Institute Of Frontier Materials, Deakin University, Geelong, Australia
	INFLUENCE OF CORROSION ON MECHANICAL PROPERTIES AND MICROSTRUCTURE OF 3XXX, 5XXX AND 6XXX SERIES ALUMINIUM ALLOYS
B2-P-TUE-P1-19	Marcel Wiewióra¹, Beata Leszczyńska-Madej¹, Łukasz Wzorek¹, Wojciech Sajdak¹, Maria Richert², Grzogorz Ziobro³
	'University of Science And Technology, Faculty of non-Ferrous Metals, Krakow, Poland, ² University of Science and Technology, Faculty of Management, Krakow, Poland, ³ Boryszew S.A, oddział Maflow , Tychy, Poland

	TIME: 13:00-15:00 R00M: F0YER, E1/M1
P1	Tuesday, September 19, 2017
• •	Symposium B.3: High-temperature alloys
B3-P-TUE-P1-1	EFFECT OF MECHANICAL PROCESSING IN THE CORROSION RESISTANCE OF X-750 SUPERALLOY
	<u>Dra Sinara Borborema</u> ^{1,2,3} , Mr E.S.R. Gouvêa ³ , Dr L.S. Araujo ² , MSc G.R.X. de Souza ² , Dr Jean Dille ² , Dra M.O.T. da Conceição ³ , Dr. L H. de Almeida ² 1 UERJ, Resende, Brazil, ² UFRJ, Rio de Janeiro, Brasil, ³ UniFOA, Volta Redonda, Brasil
	INFLUENCE OF AGING ON THE MICROSTRUCTURE OF A Fe-Ni SUPERALLOY
B3-P-TUE-P1-2	PhD Pilar Valles ¹ , PhD Ana Pastor ¹ , PhD María García ¹ , Graduated Beatriz González ¹ 'Inta, Torrejón De Ardoz, Spain
	COMPARISON OF CORROSION RESISTANCE OF AUSTENITIC STEEL 309 AND INCONEL 625 IN RENEWABLE FUEL ASH ENVIRONMENTS
B3-P-TUE-P1-3	Mgr Aleksandra Dębowska ¹ , Dr. Hab. Inż Agnieszka Kopia ¹ , Dr. Hab. Aneta Magdziarz ¹ , Dr. Inż. Izabela Kalemba - Rec ¹ 'Agh University Of Science And Technology, Cracow, Poland
	HIGH-RESOLUTION CHARACTERIZATION OF HIGH-TEMPERATURE STRUCTURAL MATERIALS
B3-P-TUE-P1-4	Felix Theska ¹ , Aleksandar Stanojevic ² , Dr. Bernd Oberwinkler ² , Dr. Sophie Primig ¹ 1UNSW Sydney, Australia, ² Böhler Schmiedetechnik GmbH & Co KG, Kapfenberg, Austria
	FAULT DIAGNOSIS IN WELDED JOINTS THROUGH THE APPLICATION OF STANDARD TEST TECHNIQUES
B3-P-TUE-P1-5	Doctora En Ingeniería Ana María Furlani ¹ ¹Facultad De Ingeniería-UNCuyo, Godoy Cruz
	CHEMICAL AND MICROSTRUCTURAL MODIFICATIONS OF NI-BASED SUPERALLOY HAYNES®230 INDUCED BY PLASMA IMMERSION NITRIDING
B3-P-TUE-P1-6	<u>Jean-baptiste Dubois</u> ¹ , Luc Pichon ¹ , Fadella Larek ¹ , Michel Drouet ¹ 'Institut Pprime - UPR 3346 CNRS, University of Poitiers, ISAE-ENSMA, France
	X RAY DIFFRACTION LINE PROFILE ANALYSIS OF TA6V TIG WELDS
B3-P-TUE-P1-7	Master Lyacine Rabahi ^{1,2} , Doctor Brahim Mehdi ^{1,2} , Master Nabil Kherrouba ² , Doctor Riad Badji ² ¹ Research Center In Industrial Technologies Crti, Algiers, Algeria, ² University of Science and Technology Houari Boumediene (USTHB), Algiers, Algeria
	ATOM PROBE TOMOGRAPHY OF HIERARCHICAL MICROSTRUCTURES IN A Fe-Si-V ALLOY
B3-P-TUE-P1-8	Dr. Florian Vogel ^{1,2,3} , Xuyang Zhou ³ , Sieglind Ngai ^{3,4} , Konrad Fricke ² , Dr. Nelia Wanderka ² , Prof. Dr. John Banhart ^{1,2} , Prof. Dr. Gregory B. Thompson ³ ¹ Technische Universität Berlin, Berlin, Germany, ² Helmholtz Zentrum Berlin, Berlin, Germany, ³ University of Alabama Tuscaloosa, Tuscaloosa, United States, ⁴ South China University of Technology, Guangzhou, Peoples Republic of China
	STRESS RELAXATION AND THERMOMECHANICAL PROCESSING OF NICKEL-BASED SUPERALLOY SPRINGS FOR HIGH TEMPERATURE APPLICATIONS
B3-P-TUE-P1-9	Mr. Marc-Antony Coster ¹ , Dr. Simon Gill ¹ , Mr. Gordon McColvin ² 1 Leicester University, Leicester, United Kingdom, 2GE Power (formerly ALSTOM), Rugby, United Kingdom
	HIGH TEMPERATURE PROPERTIES OF FECRAL COATING WITH THE ALRICH BUFFER ZONES ON P92 SUBSTRATE
B3-P-TUE-P1-11	<u>Dr. Olga Tsurtsumia</u> ¹ , Prof. Elguja Kutelia ¹ , Prof. Mikheil Okrosashvili ¹ , Mr. Tengiz Kukava ¹ 'Georgian Technical University, Tbilisi, Georgia

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
Pl I	Tuesday, September 19, 2017
• •	Symposium B.5: Advanced Ceramics
B5-P-TUE-P1-2	CRYSTALLIZATION BEHAVIOR OF AMORPHOUS SI-B-C-N CERAMIC SINTERED AT HIGH PRESSURE AND HIGH TEMPERATURE
	<u>Dr. Zhihua Yang</u> , Dr. Bin Liang, Prof. Dechang Jia, Prof. Yu Zhou 'Harbin Institute Of Technology, Harbin, P.R.China
	SOME PROBLEMS TO GET ADVANCED PZT COATINGS FOR MEMS
B5-P-TUE-P1-3	Professor Natalia Korobova ¹ , Professor Sergey Timoshenkov ¹ , Professor Gulmira Yar-Mukhamedova ²
	¹ National Reseaech University of Electronic Technology MIET, Zelenograd, Moscow, Russian Federation, ² Al-Farabi Kazakh National University, Almaty, Kazakhstan
B5-P-TUE-P1-4	SPARK PLASMA SINTERING OF MULLITE-3Y-TZP NANOPOWDERS PREPARED BY THERMAL PLASMA AND SOL-GEL SYNTHESIS METHODS
D3-F-10E-F1-4	<u>Dr. Janis Grabis</u> ¹ , Mrs. Dzidra Jankoviča ¹ , Mr. Ints Šteins ¹ , Mrs. Inta Sīpola ¹ , Mrs. Māra Lubane ¹ ¹ Riga Technical University Institute of Inorganic Chemistry, Riga, Latvia
	RAPID PROTOTYPING CERAMIC FILTER APPLICATION IN INVESTMENT CASTING PROCESS
B5-P-TUE-P1-5	Msc Eng Mateusz Konrad Koralnik¹, PhD Rafał Cygan², Prof. PhD. Eng. Jarosław Mizera¹
	¹ Faculty of Materials Science and Engineering, Warsaw University Of Technology, Warsaw, Poland, ² Faculty of Mechanical Engineering and Aeronautics, Rzeszow University of Technology, Rzeszów, Poland
	MORPHOLOGY AND MECHANICAL PROPERTIES OF CERAMIC SHELL MOLDS NEW GENERATION
B5-P-TUE-P1-6	Phd Rafal Cygan ¹ , Mateusz Konrad Koralnik ² , Jarosław Mizera ² 1Faculty of Mechanical Engineering and Aeronautics, , Rzeszow University of Technology, al. Powstancow Warszawy 8, Rzeszow 35-959, Poland, 2Faculty of Materials Science and Engineering, Warsaw University of Technology, Woloska 141, 02-507 Warsaw, Poland
	THE ELECTRIC PROPERTIES OF STRONTIUM DOPED LaCoO3 THIN FILMS DEPOSITED BY PLD PROCESS
B5-P-TUE-P1-7	MSc. Anna Cyza 1, PhD Wojciech Maziarz 1, PhD. Łukasz Cieniek 1, Prof. Agnieszka Kopia 1 'AGH- University of Science and Technology, Cracow, Poland
	PROPERTIES AND STRUCTURE OF BINARY AND TERNARY TELLURITE GLASSES
B5-P-TUE-P1-8	Mrs. NagiaS. Tagiara ¹ , Mrs. Elham Moayedi ² , Prof. Apostolos Kyritsis ³ , Prof. Lothar Wondraczek2, Dr. Efstratiosl. Kamitsos1 1 Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece, 20tto Schott Institute
	of Materials Research, University of Jena, Jena, Germany, ³ National Technical University of Athens, Zografou Campus, Athens, Greece
	ANALYSIS OF THE ELECTRONIC CONDUCTIVITY OF THICK-FILM Gd-DOPED CERIA BY HEBB-WAGNER POLARIZATION METHOD
B5-P-TUE-P1-9	Jong Hoon Joo ¹ , Gyeong Duk Nam ¹ , Young-jin Ryu ¹ , Jeong Hwan Park ¹ , Sin Myung Kang ¹ ¹ Chungbuk National University, Cheongju, South Korea
	SOLID SOLUTIONS OF MAX PHASES OBTAINED BY SHS SYNTHESIS
B5-P-TUE-P1-10	M.Sc. Paulina Borowiak ¹ , M.Sc. Katarzyna Chabior, D.Sc. Leszek Chlubny, D.Sc. Dariusz Zientara, Prof. Jerzy Lis, Prof. Mirosław Bućko 1 University of Science and Technology, Kraków, Poland
	University of Science and Technology, Makow, Foland
B5-P-TUE-P1-11	TAPE CASTING FABRICATION OF METAL SILICIDES REINFORCED WITH GRAPHENE
	Dr. Dreidy Mercedes Vasquez Sandoval ¹ , Undergraduate Jahaziel Toro Carrasco ¹ , Dr. Ramalinga Mangalaraja ² , Dr. Jaime Morales ¹
	¹Escuela de Ingeniería Química, Pontificia Universidad Católica de Valparaíso, Av. Brasil 2950, Valparaíso, Chile, Valparaiso, Chile, ²Escuela de Ingeniería Química, Pontificia Universidad Católica de Valparaíso, Av. Brasil 2950, Valparaíso, Chile, Valparaíso, Chile, ³Advanced Ceramics and Nanotechnology Laboratory, Department of Materials Engineering, Faculty of Engineering, University of Concepcion, Concepcion 407-0409, Chile, Concepción, Chile, ⁴Escuela de Ingeniería Química, Pontificia Universidad Católica de Valparaíso, Av. Brasil 2950, Valparaíso, Chile, Valparaíso, Chile

	TIME: 13:00–15:00 ROOM: FOYER, E1/M1
P1	Tuesday, September 19, 2017
	Symposium B.5: Advanced Ceramics
B5-P-TUE-P1-12	PHOTOCATALYTIC ACTIVITY OF CLAY CERAMIC COATED WITH TITANIA AND Zno NANOPARTICLES
	<u>Dr.hab.sc.ing. Visvaldis Svinka</u> ¹ , Dr.sc.ing. Ruta Svinka ¹ , Mg.sc. Oskars Lescinskis ¹ 'Riga Technical University Institute Of Silicate Naterials, Riga, Latvia
	TOUGHENING OF Nb205 DOPED ZIRCONIA BIOMATERIAL FABRICATED BY MICROWAVE SINTERING TECHNOLOGY
B5-P-TUE-P1-13	Dr Amparo Borrell¹, Dr Maria Dolores Salvador¹, PhD Lorena Gil¹, Dr Felipe L. Peñaranda2, PhD Eugeni Cañas ⁴, Dr Carlos F. Gutierrez³
	¹Institute of Materials Technology, Universitat Politècnica De València, Valencia, Spain, ²Instituto de Aplicaciones de las Tecnologías de la Información y de las Comunicaciones Avanzadas (ITACA), Universitat Politècnica de València, Valencia, Spain, ³Centro de Investigación en Nanomateriales y Nanotecnología (CINN) [Consejo Superior de Investigaciones Científicas (CSIC), Universidad de Oviedo, Principado de Asturias]., El Entrego, Spain, 4Instituto de Tecnología Cerámica (ITC), Universitat Jaume I, Castellón, Spain
	DEVELOPMENT AND PROPERTIES OF NANOCOMPOSITE Al203-NIAl204 BY REACTIVE SINTERING
B5-P-TUE-P1-14	Phd student Fotini Petrakli ¹ , Prof Athena Tsetsekou ¹ 'School of Mining and Metallurgical Engineering, National Technical University of Athens, Athens, Greece
	MAGNETORESISTANCE OF THE HIGH-PRESSURE PEROVSKITE-LIKE PHASES Gd0.7Cu3V4012 AND Er0,73Cu3V4012 AT PRESSURES UP TO 50 GPa
B5-P-TUE-P1-15	Irina Ustinova ¹ , Nina Melnikova ¹ , Nadezhda Kadyrova ² , Alexander Tebenkov ¹ , Alexey Babushkin ¹ 'Ural Federal University, Ekaterinburg, Russian Federation, 'ISSC UB RAS, Ekaterinburg, Russian Federation
	THERMAL BEHAVIOR OF LOCAL STRUCTURE IN LITHIUM PEROXIDE Li202
B5-P-TUE-P1-16	Dr. Yoshitaka Matsushita ¹ , Dr. Motoharu Imai ¹ , Dr. Masashi Miyakawa ¹ , Dr. Satoshi Kawada ¹ 'NIMS, Tsukuba, Japan
25 25 25 24 45	INFLUENCE OF THE ZrSiO4 AND ZnO ON THE WHITENESS AND PHYSICAL-MECHANICAL PROPERTIES OF INDUSTRIAL CERAMIC SANITARY-WARE
B5-P-TUE-P1-17	Boudeghdegh Kamel ¹ 'LEAM, Faculty of Sciences and Technology, University Mohammed Seddik ben Yahia- JijelUniversity of Jijel, Jijel, Algeria
	DESIGN OF NOVEL MATERIALS BASED ON ORTHOPHOSPHATES WITH CONTROLLABLE THERMAL EXPANSION
B5-P-TUE-P1-18	<u>Dr., Ass. Professor Vladimir Pet'kov</u> ¹, Dr., Ass. Professor Elena Asabina, postgraduate Alexander Shipilov, postgraduate Anton Dmitrienko, postgraduate Artemy Alekseev, postgraduate Dmitriy Lavrenov, Dr. Igor Schelokov
	Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russian Federation MICROSTRUCTURE OF EUROPIUM NIOBATE AND TANTALATE
	THIN FILMS PREPARED BY SOL-GEL METHOD
B5-P-TUE-P1-19	PhD. Helena Brunckova ¹ , PhD. Lubomir Medvecky ¹ , PhD. Erika Mudra ¹ , PhD. Alexandra Kovalcikova ¹ , PhD. Juraj Durisin ¹ , PhD. Martin Sebek ¹ 'Institute of Materials Research Slovak Academy of Sciences, Kosice, Slovakia
B5-P-TUE-P1-20	TWO STEP SINTERING ROUTE FOR ALUMINA-BASED CERAMICS
	Maksim Boldin ¹ , Aleksander Popov ¹ , Eugene Lantsev ¹ , Aleksey Nokhrin ¹ , Vladimir Chuvil'deev ¹ 1Lobachevsky State University of Nizhny Novgorod, Nizhny Novgorod, Russian Federation
	INFLUENCE OF THE REDUCED GRAPHENE OXIDE (rGO) ON THE MICROSTRUCTURE AND PROPERTIES OF THE CERAMICS ZrO2-Y2O3
B5-P-TUE-P1-22	postgraduate Artyom Glukharev ¹ , Sc.D. Vladimir Konakov ¹ , Ph.D. Olga Kurapova ¹ , student Valeria Lebedeva ¹ , postgraduate Evgeny Boltynyuk ¹ 'Saint-Petersburg State University, Saint-Petersburg, Russian Federation

	TIME: 13:00-15:00 R00M: F0YER, E1/M1
PI	Tuesday, September 19, 2017
	Symposium B.5: Advanced Ceramics
	DIELECTRIC PROPERTIES OF HYDROXYAPATITE OBTAINED BY BOVINE BONE AT HIGH TEMPERATURES
B5-P-TUE-P1-23	Laura Daniela Valencia Molina ¹ , Jose Humberto Castillo Chamorro ¹ , Cristian Felipe Ramirez Gutierrez ² , Sandra Milena Londoño Restrepo ² , Mario Enrique Rodriguez Garcia ²
	¹ Universidad Del Quindío, Armenia, Colombia, ² Universidad Nacional Autónoma de México , Santiago de Queretaro, Mexico
	MICROMECHANICAL MAPPING OF CEMENTITIOUS MATERIALS
B5-P-TUE-P1-24	<u>Dr. Ude Dirk Hangen</u> ¹ , Dr. Jaroslav Lukes ¹ , Dr. Douglas Stauffer ¹
	¹ Bruker Nanosurfaces / Hysitron, Minneapolis, USA
B5-P-TUE-P1-25	THE EFFECT OF RESIDUAL STRESS ON WHISKER REINFORCEMENTS IN SICW-Al203 COMPOSITES DURING COOLING
	Weiwei Wu ^{1,2} , Jingya Gui ² , Tianbin Zhu ² , Zhipeng Xie ²
	¹ Utrecht University, Utrecht, Netherlands, ² Tsinghua University, Beijing, China

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
P1	Tuesday, September 19, 2017
	Symposium B.6: Advanced Composites
	A NUMERICAL STUDY FOR EXAMINING THE WIDTH OF THE FLUCTUATIONS IN THE ELECTRICAL PERCOLATION THRESHOLD WITH THE THICKNESS OF A METAL-DIELECTRIC COMPOSITE
B6-P-TUE-P1-1	Dr. Mohamed Mokhtari ^{1,2} , Pr. Lotfi Zekri ² , Pr. Noureddine Zekri ² ¹ University Center Of Tissemsilt, Tiaret, Algeria, ² USTO, Département de Physique, LEPM, BP 1505 El M'Naouar, Oran, Algérie, Oran, Algeria
	INFLUENCE OF DEBINDING AND SINTERING ON MICROSTRUCTURAL EVOLUTION OF MICRO HOT-EMBOSSED AISI 316L REINFORCED WITH CARBON NANOTUBES
B6-P-TUE-P1-2	Mr Omid Emadinia ¹ , Dr Sonia Simões ¹ , Prof. Teresa Vieira ² , Assoc. Prof. Manuel Vieira ¹
	¹ CEMUC, Department of Materials and Metallurgical Engineering, University of Porto, Portugal, Porto, Portugal, ² CEMUC, Department of Mechanical Engineering, University of Coimbra, Portugal, Coimbra, Portugal
	THE EFFECT OF NICKEL COATING ON THE PROPERTIES OF Cu-SIC COMPOSITES
B6-P-TUE-P1-3	Phd Marcin Chmielewski ¹ , Prof. Katarzyna Pietrzak ¹ , PhD Agata Strojny-Nędza ¹ , MSc Kamil Kaszyca ¹ , PhD Szymon Nosewicz ² , PhD Dariusz Jarząbek ²
	¹ Institute of Electronic Materials Technology, Warsaw, Poland, ² Institute of Fundamental Technological Research Polish Academy of Sciences, Warsaw, Poland
	INFLUENCE OF THE TYPE OF REINFORCEMENTS ON THE THERMAL PROPERTIES OF COPPER-BASED COMPOSITES
B6-P-TUE-P1-4	Ph.D Agata Strojny-Nedza ¹ , Prof. Katarzyna Pietrzak ¹ , MSc Anna Bańkowska ¹ , PhD Marcin Chmielewski ¹
	¹ Institute of Electronic Materials Technology, Warsaw, Poland
	THE INFLUENCE OF THE THERMAL RESIDUAL STRESSES ON THE THERMAL PROPERTIES OF MULTILAYERED Cu/SiC/Cu SYSTEMS
B6-P-TUE-P1-5	Prof. Katarzyna Pietrzak ¹ , PhD Agata Strojny-Nędza ¹ , PhD Witold Węglewski ² , Prof. Michał Basista ²
	¹ Institute of Electronic Materials Technology, Warsaw, Poland, ² Institute of Fundamental Technological Research Polish Academy of Sciences, Warsaw, Poland
	MECHANICAL CHARACTERISTICS OF RADIATION CROSS-LINKED HYDRO POLYMERIC COMPOSITES AND ANISOTROPY AUTOMATED SYSTEM "KERN-DP"
B6-P-TUE-P1-6	Ph.D., Sen. Sci. Res. Anatoliy Petrovich Onanko ¹ , Prof., Dr. Sci. Sergey Vyzhva ¹ , Ph.D. Yuriy Onanko ¹ *National University of Kyiv, Kyiv, Ukraine
	INFLUENCE OF SURFACE FINISH AND DIMENSIONS OF BFRP BARS ON THEIR PULLOUT STRENGTH
B6-P-TUE-P1-7	Montse Haro Rodríguez¹, Victor Calvet Rodríguez¹, Manuel Valcuende Payá¹, Vicente Amigó Borrás¹¹Universidad Politecnica De Valencia, Valencia, Spain

TIME: 13:00-15:00

ROOM: FOYER, E1/M1

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DI	Tuesday, September 19, 2017
PI =	Symposium B.6: Advanced Composites
B6-P-TUE-P1-8	CHARACTERISATION BY INDENTATION OF GLASS / POLYESTER COMPOSITES: EFFECT OF THE RESIN POLYMERISATION PROCESS
	Dr Sylvain Giljean ¹ , Dr Marie-José Pac ¹ , Dr Cyril Marsiquet ¹ , Miss Basma Hasiaoui ¹ , PhD Ahmad Ibrahim ² , PhD Gildas L'Hostis ¹
	¹ Université de Haute-Alsace, Laboratoire de Physique et Mécanique Textiles, Mulhouse, France, ² Université de Haute-Alsace, Laboratoire de Photochimie et d'Ingénierie Macromoléculaires, Mulhouse, France
	INFLUENCE OF PROCESSING PARAMETERS ON THE MECHANICAL PROPERTIES OF THREE DIFFERENT LONG CARBON/GLASS FIBRE REINFORCED THERMOPLASTICS
B6-P-TUE-P	M.sc. Jan-Marc Tiemann ¹ , Prof. DrIng. habil. Ulrich Krupp ¹ , Prof. DrIng. Rainer Bourdon ¹ 'Hochschule Osnabrück, Osnabrück, Germany
	STUDY OF THE USE OF SANDWICHES PANELS IN BAJA VEHICLE FLOORS
B6-P-TUE-P	1-10 Undergraduate Francisco Sousa ¹ , Undergraduate Carlos Araujo ¹ , Undergraduate Marcus Rodrigues ¹ , Undergraduate Alaí S. Machado ¹ , Undergraduate Gean M. Mota ¹ 'Instituto Federal de Educação, Ciência e Tecnologia do Piauí, Teresina, Brazil
	PROPERTIES OF MICRO/NANOSCALE CERAMICS-LIKE "CELLULOSE + OXIDE" COMPOSITE
B6-P-TUE-P	Prof. Serhii Nedilko ¹ , Ph.D. Olexander Alekseev ¹ , Ph.D. Vitalii Chornii ¹ , Prof. Sergiy Revo ¹ , Mr. Maksym Nedielko ²
	¹ Taras Shevchenko National University of Kyiv, Kyiv, Ukraine, 20. Paton Electric Welding Institute of NASU, Kyiv, Ukraine
	SYNTHESIS OF SIC-MSi2 (M=M0, V) COMPOSITE MATERIALS BY REACTIVE INFILTRATION
B6-P-TUE-P	1-12 Professor Javier Narciso ¹ , Doctor Mario Caccia ¹ , Master Adrian Ortega ¹ 'Alicante University, Alicante, Spain
D/ D TUT D	ANALYSIS OF MECHANICAL BEHAVIOUR IN SANDWICH COMPOSITE BENDING WITH CORE MATERIAL TYPE HONEYCOMB
B6-P-TUE-P	Pedro Sousa Instituto Federal de Educação, Ciência e Tecnologia do Piauí, Teresina, Brasil
D/ D THE D	INVESTIGATION OF THE ATOMIC STRUCTURE OF VITREOUS MATERIALS FROM THE SYSTEM Ag-Ge-As-S CONTAINING CARBON NANOTUBES USING FRAGMENTARY MODEL
B6-P-TUE-P	Mr. Kirill Kurochka ¹ , Dr. Nina Melnikova ¹ , Ms. Vasilisa Zaikova ¹ , Dr. Olga Kheifets ¹ **Ural Federal University, Ekaterinburg, Russian Federation**
	NOVEL ALUMINIUM/BASALT METAL MATRIX COMPOSITES FOR OFFSHORE RENEWABLE ENERGY APPLICATIONS
B6-P-TUE-P	Dr. Nilam Barekar ¹ , Mr Onuh Adole ¹ , Dr. Lorna Anguilano ¹ , Dr. Aleksander Novitskyi ² , Dr. Thimoty Minton ¹ , Dr. Brian McKay ¹ Dr Nilam Barekar ¹ , Mr Onuh Adole ¹ , Dr Lorna Anguilano ¹ , Dr Aleksander Novitskyi ² , Dr Thimoty Minton ¹ , Dr Brian McKay ¹
	THE MODIFICATION OF ELECTRICAL AND ELECTROCHEMICAL PROPERTIES OF ALUMINIUM—CARBON FIBRE REINFORCED COMPOSITE LAMINATES BY THE INSULATING INTERLAYERS
B6-P-TUE-P	1-16 Professor Barbara Surowska ¹ , Doctor Monika Ostapiuk ²
	¹Lublin University of Technology, Faculty of Mechanical Engineering, Lublin, Poland, ²Lublin University of Technology, Faculty of Mechanical Engineering, Lublin, Poland
	DEFORMATION TEXTURES OF ALUMINUM IN MULTILAYERED AL/BRASS COMPOSITE SEVERELY DEFORMED BY ACCUMULATIVE ROLL BONDING
B6-P-TUE-P	1-17 Mr Majid Naseri¹, Dr Mohsen Reihanian¹, <u>Dr Ehsan Borhani</u> ²
	¹ Department of Materials Science and Engineering, Faculty of Engineering, Shahid Chamran University of Ahvaz, Ahvaz, Iran , ² Department of Nano Technology, Nano Materials Group, Semnan University, Semnan, Iran
B6-P-TUE-P1-18	SYNTHESIS AND CHARACTERIZATION OF CeO2/SnO2 THIN FILMS COMPOSITES FOR APPLICATION
	1–18 Assoc. Prof. Gehan El Komy Abd El Galeel ¹ , Prof. Zainab El Mandouh ¹ , Prof. Massarat Seddik ¹ ¹ National Research Centre Cairo-dokki, Cairo, Egypt, ² National research center, Cairo, Egypt, ³ University Collage of Women for Arts, Science and Education Ain Shams University, Cairo, Egypt
	DEVELOPMENT AND CHARACTERISATION OF HYBRID EPOXY/PU DYNAMIC THERMOSET COMPOSITES WITH ENHANCED IMPACT RESISTANCE
B6-P-TUE-P1-19	Dr. Jon Aurrekoetxea ³ , Dr. Nerea Markaide ² , Professor Monica Ferraris ¹
	¹Politecnico di Torino, Turin, Italy, ²IK4-CIDETEC, San Sebastian, Spain, ³Mondragon University, Arrasate - Mondragon, Spain

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Symposium B.6: Advanced Composites		
	MICROSTRUCTURE AND MECHANICAL CHARACTERIZATION OF AI/HEAP COMPOSITES	
B6-P-TUE-P1-20	eng. PhD univ. prof. loan Carcea ¹ , eng. PhD univ. assit. Raluca Maria Florea ¹ , PhD student Laura Asavei ¹ , Scientific Research Vasile Soare ² , eng. PhD univ. prof. Romeu Chelariu ¹ 1'Gheorghe Ascahi' Technical University of Iasi, Department of Materials Science and Engineering, Iasi, Romania, 2'Research and Development National Institute for Nonferrous and Rare Materials, Ilfov, Romania	
	THERMAL FATIGUE BEHAVIOUR OF COPPER BASED COMPOSITE FOR POWER ELECTRONICS	
B6-P-TUE-P1-21	Hiba Fekiri ¹ , Vladimir A. Esin ¹ , Vincent Maurel ¹ , Alain Köster ¹ , Yves Bienvenu ¹ 'MINES Paristech, PSL Research University, France	
B6-P-TUE-P1-22	MICROWAVE DIELECTRIC PROPERTIES OF POLYIMIDE COMPOSITE FILMS CONTAINING TIO2 NANOTUBES	
D0-F-10E-F1-22	<u>Dr. Marius Andrei Olariu</u> ¹ , Dr. Corneliu Hamciuc ² , Dr. Elena Hamciuc ² ¹Technical University of Iasi, Iasi, Romania, ²"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania	
	INVESTIGATION OF ELECTROCHEMICAL BEHAVIOUR OF GRAPHENE NANO PLATELET (GNP) REINFORCED ALUMINUM MATRIX COMPOSITES	
B6-P-TUE-P1-23	Res. Assist. Burak Kücükelyas ^{1,2} , Res. Assist. Cantekin Kaykılarlı ^{1,3} , Asst. Prof. Dr. Nazlı Akçamlı ^{1,2} , Prof. Dr. Deniz Uzunsoy¹ ¹Bursa Technical University, Faculty of Natural Sciences, Architecture and Engineering, Department of Metallurgical and Materials Engineering, Bursa, Turkey, ²İstanbul Technical University, Faculty of Chemical and Metallurgical Engineering, Department of Metallurgical and Materials Engineering, İstanbul, Turkey, ³Yıldız Technical University, Faculty of Chemical and Metallurgical Engineering, Department of Metallurgical and Materials Engineering, İstanbul, Turkey	
D/ D THE D1 0/	ESTIMATION OF THE DAMAGE LEVEL OF A COMPOSITE BY THERMAL CHARACTERIZATION AND SOURCE ESTIMATION	
B6-P-TUE-P1-24	Mr Anthony Castillo ¹ , Mr Jean-Laurent Gardarein ¹ , Mr Fabrice Rigollet ¹ , Mr Christophe Le Niliot ¹ 'Iusti Lab / Aix-marseille University, Marseille, France	
	SOFT MAGNETIC COMPOSITE BASED ON FeSi POWDER INSULATED BY MODIFIED PHENOLIC RESIN	
B6-P-TUE-P1-25	Phd Magdalena Streckova¹, Maria Faberova¹, Dr. Radovan Bures¹, Dr. Jan Fuzer², Pavol Kurek¹, Dr. Erika Mudra¹	
	¹ Institute of Materials Research, Slovak Academy of Sciences, Watsonova 47, 04 0 01 Kosice, Slovak Republic, Kosice, Slova-kia, ² Institute of Physics, Faculty of Science P. J. Šafárik University, Park Angelinum 9, 040 01 Košice, Slovak Republic, Kosice, Slovakia	
	BIOSORPTION OF LOPERAMIDE FROM WATER BY LAGENARIA VULGARIS SHELL CHEMICALLY MODIFIED WITH AI203: KINETIC AND ISOTHERMS STUDIES	
B6-P-TUE-P1-26	Nena Velinov ¹ , Slobodan Najdanović ¹ , Miljana Radović ¹ , Jelena Mitrović ¹ , Miloš Kostić ¹ , Danijela Bojić ¹ , Aleksandar Bojić ¹ **Department of Chemistry, Faculty of Sciences and Mathematics, University of Niš, Niš, Serbia, Serbia	
	SPARK PLASMA SINTERING OF BETA-SIAION—BN COMPOSITES	
B6-P-TUE-P1-27	Ms. Evgeny Nefedova ¹ , Dr. Vladimir Goltsev ¹ , <u>Prof. Evgeny Grigoryev</u> ¹ , Dr. Konstantin Smirnov ² 'NRNU MEPhl, Moscow, Russian Federation, 'Institute of Structural Macrokinetics and Materials Science, Russian Academy of Sciences, Chernogolovka city, Moscow region, Russia	
	MULTI-OBJECTIVE OPTIMIZATION IN DRILLING OF COMPOSITES USING TAGUCHI-BASED GREY RELATIONAL ANALYSIS	
B6-P-TUE-P1-28	Navid Zarif Karimi ¹ , Giangiacomo Minak ¹ ¹ University of Bologna, Department of Industrial Engineering DIN, Forlì, 47121, Italy, Forlì, 47121, Italy	
B6-P-TUE-P1-29	FABRICATION AND PERFORMANCE EVALUATION OF SELF-HEALING SYSTEM DEDICATED FOR GLASS FIBRE REINFORCED COMPOSITES	
	PhD Eng Paulina Chabera ¹ , PhD Eng Rafał Kozera ¹ , PhD Eng Patryk Bolimowski ¹ , Prof Anna Boczkowska ¹	
	¹Faculty Of Materials Science And Engineering, Warsaw University of Technology, Warsaw, Poland ADVANCE IN SINTERING THROUGH A COMBINATION OF NEW APPROACHES	
	Maksim Boldin ² , Aleksandr Popov ² , Evgeny Lantsev ² , Aleksey Nokhrin ² , Vladimir Chuvil'deev ² ,	
B6-P-TUE-P1-30	Ekaterina Potanina Nizhny Novgorod State University, Nizhny Novgorog, Russian Federation, Chational Research University), Research and Development Institute of Physics and Technology, Nizhny Novgorog, Russian Federation	

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rı —	Symposium B.6: Advanced Composites
	PREPARATION AND CHARACTERIZATION OF CARBON/EPOXY COMPOSITES WITH NEEDLE PUNCHED CARBON FIBERS PREFORM
B6-P-TUE-P1-31	SongHee Kang ¹ , ChunSoo Kim ¹ , WonGi Jo ¹ , KyoungSik Kim ² , SeungGoo Lee ¹ ¹ Chungnam National University, Daejeon, South Korea, 2Nexcoms co., Daejeon, South Korea
B6-P-TUE-P1-32	INFLUENCE OF PHOSPHORIC ACID ON FLAME RETARDANCY AND INTERFACIAL ADHESION OF POLYKETONE/EPOXY COMPOSITES
	Hani Jo ¹ , Jee-Woo Yang ¹ , Hyeon Soo Lim ¹ , Woojin Oh ¹ , Seung Goo Lee ¹ ¹ Chungnam zNational University, Daejeon, South Korea

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	ymposium B.10: Fatigue, Wear and Corrosion	of Materials and	Structures
	EXPERIMENTAL AND COMPUTATIONAL STUDIES ON THE CO HISTAMINE AND ITS NEW DERIVATIVE OF HSmD1 FOR MILD		
B10-P-TUE-P1-1	Researcher Lasnouni Touafri ¹ , Doctor Abdelkader Hella Prof. Abdelaziz Kadri ³	l ¹ , Prof. Salah Chafaa ²	2
	¹ University of Khemis Miliana, Algeria, ² University of Setif, Algeria, ³ University of Setif, ⁴ Univer	rsity of Tizi Ouzou, Algeria	
	ANALYTICAL MODELING OF THE RESPONSE OF CIRCULAR S GLARE FIBER-METAL LAMINATES UNDER FRICTIONLESS O		
B10-P-TUE-P1-2	Dr. George Bikakis¹, Prof. DrIng Alexander Savaidis ¹		
	¹ Department Of Mechanical Engineering Educators, Athens, Greece		
	IMPACT OF PLATE RADIUS AND DIFFERENT BOUNDARY COI OF CIRCULAR GLARE FIBER-METAL LAMINATES UNDER FR		
B10-P-TUE-P1-3	Dr. George Bikakis ¹ , Prof. DrIng Alexander Savaidis ¹		
	¹ Department Of Mechanical Engineering Educators, Athens, Greece		
D40 D THE D4 /	CHARACTERIZATION OF MICROSTRUCTURE, MECHANICAL P CORROSION RESISTANCE OF LEAN DUPLEX STAINLESS STE		
B10-P-TUE-P1-4	Naima Ouali ¹ , Dr. Khadidja Khenfer ² , Brahim Belkessa ¹		
	Research Center In Industrial Technologies, Algeria, ² LGSM, USTHB, Univ	ersity of Algiers, Algeria	
	FATIGUE BEHAVIOUR OF INDUSTRIAL RUBBER BLENDS AN	D RUBBER-TEXTILE CO	OMPOSITES
B10-P-TUE-P1-5	Sandra Seichter¹, Prof. Vasiliki-Maria Archodoulaki ¹, Dr. Armin Holzner², Alfred Wondracek²	r. Thomas Koch ¹ ,	
	¹TU Wien, Vienna, Austria, ²Semperit Technische Produkte Gesellschaft m	.b.H., Wimpassing, Austria	
B10-P-TUE-P1-6	THE EFFECT OF MN ADDITIONS ON MICROSTRUCTURE AND BEHAVIOR OF NEW WROUGHT Mg-5Al-xMn ALLOYS	CORROSION	
	Polina Metalnikov ^{1,2} , Guy Ben-Hamu ²		
	¹ Department of Material Engineering, Ben-Gurion University of the Negev ² Department of Mechanical Engineering, Sami Shamoon College of Engin		

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Pl 📕	Tuesday, September 19, 2017
S	ymposium B.10: Fatigue, Wear and Corrosion of Materials and Structures
B10-P-TUE-P1-7	IMPROVED CONCEPTS FOR THE PREDICTION OF FATIGUE LIFETIME UNDER VARIABLE AMPLITUDE THERMOMECHANICAL LOADING OF WELDED JOINTS OF X6CrNiNb18-10
	Sophie Schackert ¹ , Dr. Christoph Schweizer ¹ , Dr. Gerhard Maier ¹
	¹ Fraunhofer Institute for Mechanics of Materials IWM, Freiburg im Breisgau, Germany
	HIGH-TEMPERATURE CORROSION OF REFRACTORY SYSTEMS USED IN FUEL CATALYTIC CONVERTER UNITS IN OIZL REFINERIES
B10-P-TUE-P1-8	Prof. Greq Haidemenopoulos ¹ , Dr Anna Zervaki ² , Mr Ioannis Altanis ³ , Mr Panagiotis Dimitriadis ³ **Department of Mechanical Engineering, Khalifa University, UAE, **University Of Thessaly, Volos, Greece, **Motor Oil Hellas, Corinth Refineries, Corinth, Greece
	DISCUSSION ON THE EFFICIENCY OF DIFFERENT CERAMIC REINFORCEMENTS ON THE WEAR RESISTANCE IMPROVEMENT OF DIFFERENT METALLIC AND INTERMETALLIC MATRICES
B10-P-TUE-P1-9	<u>Dr. Konstantinos Lentzaris</u> ¹, Dipl.Eng. Kyriaki Tsirka¹, Dipl. Eng. Penelope Triantafyllou¹, Dipl. Eng. Eleni Karapanou¹, Dipl. Eng. Alexander Evangelou¹, Dr. Angela Lekatou¹, Dipl. Eng Emmanuel Georgatis¹, Dr. Alexander Karantzalis¹ ¹University Of Ioannina, Ioannina, Greece
	COMPARISON OF ENGINE OIL TYPES ON THE PISTON-CYLINDER WEAR
B10-P-TUE-P1-10	Mr. Hakan Yilmaz ^{1,2} , Dr. Arzu Sencan Sahin ²
	¹Istanbul University, Vocational School of Technical Sciences, Dept. of Mechanical and Metal Technologies, Istanbul, Turkey, ² Suleyman Demirel University, Faculty of Technology, Dept. of Energy Systems Engineering, Isparta, Turkey
	HYDROGEN EFFECTS ON FATIGUE BEHAVIOR OF 18%Cr FERRITIC STAINLESS STEEL
B10-P-TUE-P1-11	Evgenii Malitckii ¹ , Yuriy Yagodzinskyy ¹ , Heikki Remes ¹ , Hannu Hänninen 'Aalto University, Espoo, Finland
	CORROSION FATIGUE OF DUPLEX STAINLESS STEEL X2CrNimoN22-5-3 EXPOSED TO THE GEOTHERMAL ENVIRONMENT OF THE NORTHERN GERMAN BASIN UNDER DIFFERENT APPLIED POTENTIALS UND DIFFERENT SURFACE FINISH
B10-P-TUE-P1-12	M.sc. Marcus Wolf ¹ , B.Sc. Roman Afanasiev ¹ , Prof. Dr. Thomas Boellinghaus ¹ , Prof. Dr. Anja Pfennig ² 18am - Federal Institute For Materials Research And Testing, Berlin, Germany,
	² HTW University of Applied Sciences, Berlin, Germany
	CRITICAL VALUE OF FORGEABILITY ESTIMATION IN HOT FORGING CONDITIONS WITH AID OF STRAIN CONCENTRATION ANALYSIS BY DIC SYSTEM
B10-P-TUE-P1-13	MSc., Eng. Łukasz Lisiecki ¹ , PhD. Piotr Skubisz ¹ , MSc. Eng. Paulina Lisiecka-Graca ¹ ¹ AGH University of Science and Technology, Kraków, Poland
	EFFECTS OF MICROWAVE TREATMENT ON THE PROPERTIES OF NBR AND EPDM RUBBER
B10-P-TUE-P1-14	Seobin Eom ¹ , Sun Young Lee ¹ , Sun Woong Koo, Chun Soo Kim ¹ , Seung Gu Lee ¹ 1Chungnam National University, Dajeon, South Korea
B10-P-TUE-P1-15	SINGLE CRYSTALLINE SI WAFERS SLICED BY ELECTRICAL DISCHARGE ON MULTI-WIRES FOR PHOTOVOLTAIC APPLICATIONS
	Dr Boyun Jang¹ ¹Korea Institute Of Energy Research, Daejeon, South Korea
	EQUIVALENT CONSTRAINTS TO THERMOMECHANICAL FATIGUE OCCURRING ON DIESEL ENGINES
B10-P-TUE-P1-16	E.A. Lopez-Covaleda ¹ , S. Ghodrat ² , L.A.I. Kestens ³ ¹Ph.D student. Department of Materials Science and Engineering, Ghent University, Technologiepark 903, B-9052 Zwijnaarde, Ghent, Belgium, ²Ph.D. Researcher Department of Materials Science and Engineering, Delft University of Technology, Mekelweg 2, 2628 CD, Delft, The Netherlands, ³Full Professor. Department of Materials Science and Engineering, Ghent University, Technologiepark 903, B-9052 Zwijnaarde, Ghent, Belgium

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	Symposium B.11: Mechanical Properties	and Microstruct	ure
B11-P-TUE-P1-1	PRECIPITATION CORRELATION BETWEEN MC CARBIDE AND IN A TP347H AUSTENITIC STAINLESS STEEL	Nb-RICH M2P PHOSP	HIDE
	Chang Wan Hong ¹ ¹ Gift, Postech, 77 Cheongam-Ro, Nam-Gu, Pohang, Republic of Korea		
	MICROSTUCTURAL ANALYSIS OF CAST PARTS MANUFACTUR PHASES AND DEFECTS ASSESSMENT ACCORDING TO GRIFF		
B11-P-TUE-P1-2	PhD Ana Pastor ¹ , <u>PhD Pilar Valles</u> ¹ , PhD Sebastián F. Medin ¹ INTA, Torrejón de Ardoz, Spain, ² CENIM-CSIC, Madrid, Spain	na²	
	EFFECT OF SILICON ON THE HALL-PETCH RELATION IN FER	RITIC IRON	
B11-P-TUE-P1-3	Kentaro Hirata ¹ , Fulin Jiang ² , Setsuo Takaki ^{2,3} , Daichi Aka ¹ Nisshin Steel Corporation Ltd., ² Department of Materials Science and Eng for Carbon Neutral Energy Research (WPI-I2CNER), Kyushu University		
	NANOINDENTATION AND DILATOMETRIC TESTING OF SYNTH	IETICALLY PREPARED	CaCO3
B11-P-TUE-P1-4	Dr. Radek Ševčík¹, Dr. Petr Šašek¹, Dr. Alberto Viani¹		
	¹Institute of Theoretical And Applied Mechanics As Cr, v. v. i., Centre of Exce		
	ELASTIC MODULUS DEGRADATION TECHNIQUE FOR DAMAGI MEASUREMENT IN A DUAL PHASE STEEL	<u> </u>	
B11-P-TUE-P1-5	MSc. Mechanical Engineering Diego Fernando Avendaño I PhD Rodolfo Rodríguez Baracaldo ¹ , PhD Lais Mujica Ron		
	¹ Universidad Nacional de Colombia, Bogotá, Colombia, ² Universidad Peda Tecnológica de Colombia, Tunja, Colombia	gógica y	
	EFFECT OF FILLER WIRE AND ARTIFICIAL AGEING CONDITION PERFORMANCE OF (Al-Cu-Li) 2198 ALUMINUM ALLOY	INS ON THE TENSILE	MECHANICAL
B11-P-TUE-P1-6	Mr. Dimitris Karanikolas ¹ , Dr. Nikolai Kashaev ² , Mr. Stefa Prof. Nikolaos Alexopoulos ¹		ohin Enz²,
	¹ University of the Aegean, Department of Financial and Management Engin ² Helmholtz-Zentrum Geesthacht, Institute of Materials Research, Geesthach		
	ON THE CYCLIC BEHAVIOR OF A SMART JOINT		
B11-P-TUE-P1-7	Mr. Gorkem Simsek ¹ , Mr. Ali Vahidyeganeh ¹ , Prof. G. Guve	en Yapici¹	
	COMPARATIVE ANALYSIS OF THE MECHANICAL PROPERTIES	COETHE MIC / MACT	IIRIII AR WEI DING
	PROCESS (GMAW) IN STEEL 1020 FOR BAJA VEHICLE STRUC		OBOLAR WELDING
B11-P-TUE-P1-8	Undergraduating Alaí S. Machado¹, <u>Undergraduating Gean</u> Marcus Rodrigues¹, Undergraduating Francisco Sousa¹, U	Indergraduating Carl	ergraduating os Araújo¹
	¹Instituto Federal De Educação, Ciência E Tecnologia Do Piauí, Teresina, Br ²Instituto Federal De Educação, Ciência E Tecnologia Do Piauí, Teresina, Br		
B11-P-TUE-P1-9	EXPERIMENTAL EVALUATION OF THE EFFECTS OF FREE THE AND CRACK PROPAGATION OF AN AISI 1045 STEEL	RMAL FATIGUE ON TH	IE MICROSTRUCTURE
	Doctor Ayrton de Sá Brandim¹, Doctor Mário Alberto Sim Cavalcante¹, Rafaela Patrícia Mendes de Araújo¹, Sérgio A	Alves da Silva ¹	a De Araujo Fortes
	¹Instituto Federal Do Piauí, Teresina, Brazil, ²Universidade Federal do Espir		
B11-P-TUE-P1-10	DEVELOPMENT OF BETA-PHASE BRASS FOR MECHANICAL I	PROPERTIES	
D11-Y-10E-Y1-10	<u>Dr. Hyo-Soo Lee</u> ¹ , Mr. Jae-Ha Kim ¹ 'Kitech, Incheon, South Korea		

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
D1	Tuesday, September 19, 2017
гі	Symposium B.11: Mechanical Properties and Microstructure
B11-P-TUE-P1-11	HIERARCHICAL MODELLING & SIZE EFFECTS FOR COMPOSITES DESIGN & MANUFACTURING
	Dr. Alexios Papacharalampopoulos¹, Mr. Panagis Foteinopoulos ¹, Dr. Konstantinos Anyfantis¹, Dr. Panagiotis Stavropoulos¹, Dr. George Chryssolouris¹ 'Laboratory For Manufacturing Systems & Automation, Greece
	MICROSTRUCTURAL CHANGES OF FATIGUE DAMAGE IN AUSTENITIC STAINLESS STEEL
B11-P-TUE-P1-12	Dr. Yoshihisa Harada ^{1,2} , Dr. Takashi Nagoshi ¹ , Mr. Yosuke Inoue ² , Mr. Tomoya Senda ² , Dr. Brian O'Rourke ¹ , Dr. Nagayasu Oshima+ 'National Institute Of Advanced Industrial Science And Technology (aist), Tsukuba, Japan, ² University of Tsukuba, Tsukuba, Japan
	CHARACTERIZATION OF FeCOV ALLOY PROCESSED BY PIM (MIM) ROUTE
B11-P-TUE-P1-14	Borivoje Nedeljkovic ¹ , Nebojsa Mitrovic ¹ , Jelena Orelj ¹ , Nina Obradovic ² ¹ Faculty of Technical Sciences Cacak, Svetog Save 65, Serbia, ² Institute of Technical Sciences of SASA, Knez Mihailova 35, Serbia
	EFFECT OF THERMO-MECHANICAL TREATMENT OF EXTRUDED Z1 Mg ALLOY ON RESULTING MECHANICAL PROPERTIES
B11-P-TUE-P1-15	<u>Štefan Csáki</u> ¹ , Daria Drozdenko ¹ , Jan Bohlen ² , Sangbong Yi ² , Patrik Dobroň ¹ ¹Charles University, Department of Physics of Materials, Prague, Czech Republic, ²Helmholtz-Zentrum Geesthacht, Zentrum für Material- und Küstenforschung GmbH, Geesthacht, Germany
	MECHANICAL PROPERTIES OF THERMOSETTING MATERIAL MIXED WITH A VINYL POLYMER
B11-P-TUE-P1-16	Eng Fabio Augusto Mesa Rueda¹, Eng Alneira Cuellar Burgos¹
	'Laboratorio de Polimeros y Materiales Compuestos, Universidad Nacional De Colombia, Manizales, Colombia
	IN OPERANDO NANOMECHANICAL TESTING
B11-P-TUE-P1-17	S.A. Syed Asif1, Oden Warren ¹ Sanjit Bhowmick ¹ , Eric Hintsala ¹ ,
	¹Bruker, Eden Prairie, United States
	STUDY OF CREEP AND RELAXATION BY INDENTATION OF CHROMIUM-BASED STEELS
B11-P-TUE-P1-18	Philemon Nogning Kamta ¹ , Didier Chicot ¹ , Francine Roudet ¹ , Matthieu Touzin ² , Ghislain Louis ³ 'University of Lille 1, FRE 3723-LML-Laboratoire de Mécanique de Lille, Villeneuve D'ascq, France, ² University of Lille 1, CNRS, INRA, ENSCL, UMR 8207 - UMET - Unité Matériaux et Transformations, F-59000, Lille, France, ³ Mines Douai, LGCgE, Douai, France
B11-P-TUE-P1-19	INFLUENCE OF HARMONIC STRUCTURE DESIGN ON DEFORMATION BEHAVIOUR IN A Ti-25Nb-25Zr ALLOY
	<u>Daiki Nanya</u> ¹, Daiki Ueda¹, Sanjay Kumar Vajpai², Mie Kawabata Ota³, Guy Dirras⁴, Kei Ameyama³
	'Graduate school of Science and Engineering, Department of Mechanical Engineering, Ritsumeikan University, 1-1-1 Noji-Higashi, Kusatsu city, Japan, 'Department of Material Science and Metallurgical Engineering, Maulana Azad National Institute of Technology, India, Link Road Number 3, Near Kali Mata Mandir, Bhopal, India, 'Collage of Science and Engineering, Department of Mechanical Engineering, Ritsumeikan University, 1-1-1 Noji-Higashi, Kusatsu city, Japan, 'Université Paris 13, Sorbonne Paris Cité, LSPM-CNRS, 99 Avenue Jean Baptiste Clément, 93430, France
	ANOMALOUS STRAIN HARDENING BEHAVIOR OF HARMONIC STRUCTURE DESIGNED NI
B11-P-TUE-P1-20	Mr Masaya Nagata ¹ , Mr Naoki Horikawa ¹ , Mr Masashi Nakatani ¹ , Dr. Mie Ota ¹ , Prof. Kei Ameyama ¹ ¹Ritsumeikan University, 1-1-1 Noji-Higashi, Kusatsu, Japan

	TIME: 13:00-15:00 R00M: F0YER, E1/M1
DI	Tuesday, September 19, 2017
PI -	Symposium C.1-I: Coatings and Surface Modification Techniques /Part I
	ROLE OF POLYDOPAMINE AS A PRIMER FOR CATALYST COATING ON POLYURETHANE FOAMS
C1-I-P-TUE-P1-1	Louis Lefebvre², Tatevik Chilingaryan¹, Pr. Pascal Fongarland¹, <u>Dr. Valérie Meille</u> ¹, Dr. David Edouard²
	¹ LGPC-CNRS University of Lyon, Villeurbanne, France, ² LAGEP University of Lyon, Villeurbanne, France
	COATED FOAM DEEP CHARACTERIZATION USING X-RAY TOMOGRAPHY
C1-I-P-TUE-P1-2	Stephanie Pallier ¹ , Marie Line Zanota ¹ , Joel Lachambre ² , Valérie Meille ¹ 1LGPC-CNRS University of Lyon, Villeurbanne, France, ² MATEIS-INSA University of Lyon, Villeurbanne, France
	NEW OPTICAL ADHESIVE RELIABILITY EVALUATION FOR SILICON PHOTONICS
C1-I-P-TUE-P1-3	Prof. Seiko Mitachi ¹ , Mr. Yutaro Togashi ¹ , Mr. Yuuichi Kageyama ² , Mr. Kazushi Kimura ² ¹ Tokyo Universty of Technology, 1404-1 Katakura, Hachioji, Tokyo, Japan, ² The Yokohama Rubber Co. Ltd., 2-1 Oiwake, Hiratshuka, Kanagawa, Japan
	MULTISCALE CHARACTERIZATION OF THE BIO-TRIBOLOGICAL AMORPHOUS CARBON COATINGS (a-C:H) IMPLANTED BY METALLIC NANO-PARTICLES
C1-I-P-TUE-P1-4	M. Sc. Eng. Marta Janusz ¹ , Proffesor Jurgen. M. Lackner ² , Proffesor Marcin Kot ³ , Proffesor Łukasz Major ¹
	¹ Institute of Metallurgy and Materials Science; PAS, Cracow, Poland, ² Joanneum Research-Materials-Institute for Surface Technologies and Photonics, Niklasdorf, Austria, ³ AGH University of Science and Technology, Cracow, Poland
	BIO-COMPATIBILE, WEAR RESISTANT, DECORATIVE COATINGS FOR BIOLOGICAL, CORROSIVE FLUIDS INTERACTION
C1-I-P-TUE-P1-5	Aleksandra Kupczyk¹, Prof. Juergen M. Lackner², Prof. Marcin Kot³, Prof. Lukasz Major¹ ¹Institute Of Metallurgy and Materials Science PAS, Krakow, Poland, ³JOANNEUM RESEARCH -Materials, Institute for Surface Technologies and Photonics, Niklasdorf, Austria, ³Laboratory of Surface Engineering and Tribology, Faculty of Mechanical Engineering and Robotics, AGH University of Science and Technology, Krakow, Poland
	THE MICROSTRUCTURE OF WELD OVERLAY NI-BASE ALLOY DEPOSITED ON CARBON STEEL BY LASER QS-Nd:YAG
C1-I-P-TUE-P1-6	Msc. Eng. Damian Koclega ¹ , PhD Eng. Agnieszka Radziszewska ¹ , Prof. Axel Kranzmann ² , Prof. Stanisław Dymek ¹ , PhD Eng. Sławomir Kąc ¹
	'Agh University Of Science And Technology, Cracow, Poland, ² Federal Institute for Materials Research and Testing, BAM, Berlin, Germany
	CHARACTERISTIC OF LaCo03 THIN LAYERS MADE BY PLD FOR APPLICATION TO NOx GAS SENSOR
C1-I-P-TUE-P1-7	Msc. Eng. Mateusz Jędrusik¹, PhD. Eng Łukasz Cienień, PhD Eng. Agnieszka Kopia¹, PhD Eng. Christian Turquat², Prof. Chritine Leroux²
	¹AGH - UST, WIMIIP, Kraków, Poland, ²2Université de Toulon, CNRS, IM2NP UMR , La Garde, France BORONIZING OF Ti–AL ALLOYS USING THE PASTE METHOD
C1-I-P-TUE-P1-8	WITH AN OPTIMIZED SLURRY OF AMORPHOUS BORON NANOPARTICLES
	Mr Zagkliveris Dimitrios ¹ , Dr. Dimitrios Tsipas ¹ , Dr. Georgios Triantafyllidis ¹ 'Aristotle University Of Thessaloniki, Thessaloniki, Greece
C1-I-P-TUE-P1-9	GASEOUS NITRIDING OF IRON WHISKERS
	Helge Schumann ¹ , Dr. Gunther Richter ² , Prof. Dr. rer. nat. habil. Andreas Leineweber ¹ 1Technische Universität Bergakademie Freiberg, Institute of Materials Science, 09599 Freiberg, Germany, 2Max Planck Institute for Intelligent Systems, 70569 Stuttgart, Germany
	ASSESSMENT OF THE POSSIBILITY TO IMPROVE WORKING LIFE OF THE SHAPING TOOLS IN THE CONFORM EXTRUSION PROCESS
C1-I-P-TUE-P1-10	Dr Eng. Barbara Juszczyk¹, Dr Eng. Joanna Kulasa¹, Dr hab. Eng. Krzysztof Lukaszkowicz², Agnieszka Paradecka², MSc Eng. Witold Malec¹, MSc Eng. Łukasz Wierzbicki¹, MSc Eng. Beata Cwolek¹, Dr Eng. Szymon Malara¹, MSc Eng. Jerzy Ilasz³ ¹Institute of Non-Ferrous Metals, The Department of Processing of Metals and Alloys, Gliwice, Poland, ²Silesian University of Technology, Institute of Engineering Materials and Biomaterials, Gliwice, Poland, ²Power Cable Company JSC, Będzin, Poland

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
P1	Tuesday, September 19, 2017
	Symposium C.1-I: Coatings and Surface Modification Techniques /Part I
C1-I-P-TUE-P1-11	WEAR RESISTANT AND ELECTRICALLY CONDUCTIVE COMPOSITE COATINGS ON NON-FERROUS METAL SUBSTRATES
	Dr Eng. Joanna Kulasa ¹ , Dr Eng. Barbara Juszczyk ¹ , Dr Eng. Jaroslav Kováčik ² , Assoc. Prof., Dr. Stefan Emmer ² , Dr Eng. Szymon Malara ¹ , MSc Eng. Witold Malec ¹ , MSc Eng. Marcin Lis ³ *Institute of Non-Ferrous Metals, The Department of Processing of Metals and Alloys, Gliwice, Poland, *Integrovaný výskum materiálov a ich aplikácií STU s.r.o, Bratislava, Slovakia, 3Institute of Non-Ferrous Metals, The Department of Powder and Composite Materials, Gliwice, Poland
	MECHANICAL PROPERTIES AND THERMAL BEHAVIOR OF Zr(-Hf)-Cu THIN-FILM METALLIC GLASSES
C1-I-P-TUE-P1-12	Michal Zitek ¹ , Petr Zeman ¹ , Sarka Zuzjakova ¹ , Radomir Cerstvy ¹ , <u>Stanislav Haviar</u> ¹ , Michaela Kotrlova ¹ ¹ Department of Physics and NTIS – European Centre of Excellence, University of West Bohemia, Plzen, Czech Republic
	SELECTIVE ELECTRON-BEAM ALLOYING OF ALUMINIUM WITH VANADIUM
C1-I-P-TUE-P1-13	MSc degree Stefan Valkov ¹ , DSc Peter Petrov ¹ , Dr Ruslan Bezdushnyi ² , Dr Rumiana Lazarova ³ ¹ Institute Of Electronics "akad. E. Djakov" - Bulgarian Academy Of Sciences, 1784 Sofia, Bulgaria, ² Faculty of Physics, Sofia University 'St Kliment Ohridski", 1164 Sofia, Bulgaria, 3Institute of Metal Science, Bulgarian Academy of Sciences, 1113 Sofia, Bulgaria
	THERMAL STABILITY AND MECHANICAL PROPERTIES OF TIAIN/VN NANO-MULTILAYER FILMS
C1-I-P-TUE-P1-14	Ph.D. Jianling Yue ¹
	Central South University, Changsha, China FORMATION AND STRUCTURE OF TIN/ZrN MULTILAYER COATINGS DEPOSITED ON TOOL STEEL
C1-I-P-TUE-P1-15	Stefan Valkov ¹ , Dimitar Dechev ¹ , Nikolay Ivanov ¹ , Maria Ormanova ¹ , Ruslan Bezdushnyi ² , Peter Petrov ¹ *Institute Of Electronics "akad. E. Djakov" - Bulgarian Academy Of Sciences, Sofia, Bulgaria,
	² Faculty of Physics, Sofia University 'St Kliment Ohridski", 1164 Sofia, Bulgaria
	ATOMIC LAYER DEPOSITION OF TIN OXIDE THIN FILMS USING TETRAETHYLTIN TO PRODUCE HIGH-CAPACITY LI-ION BATTERIES
C1-I-P-TUE-P1-16	Denis Nazarov ^{1,2} , Maxim Maximov ² , Pavel Novikov ² , Anatoly Popovich ² , Aleksandr Rumyantsev ³ , Vladimir Smirnov ¹
	'Saint Petersburg State University, Saint-Petersburg, Russian Federation, ² Peter the Great Saint Petersburg Polytechnic University, Saint-Petersburg, Russian Federation, 31offe Institute, Saint-Petersburg, Russian Federation
	STRUCTURE AND PROPERTIES OF TiO2/Tin COATED EBM MODIFIED TI ALLOY FOR BIOMEDICAL APPLICATION
C1-I-P-TUE-P1-17	Ch. Assistant, PhD Maria Nikolova ² , Prof., Dr. Sc. Peter Petrov ¹ , PhD student Stefan Valkov ¹ , Ch. Assistant, PhD Emil Yankov ² , PhD student Maria Ormanova ¹ , Prof. Milko Yordanov ³ , Ch. Assistant, PhD Vania Zaharieva ² , PhD student Desislava Tsanova-Tosheva ⁴ 'Institute Of Electronics "akad. E. Djakov" - Bulgarian Academy Of Sciences, Sofia, Bulgaria, ² Faculty of Mechanical and Manufacturing Engineering University of Ruse "Angel Kanchev", Ruse, Bulgaria, ³ Faculty of Engineering and Pedagogy of Sliven,
C1-I-P-TUE-P1-18	Technical University of Sofia, Sliven, Bulgaria, ⁴ Faculty of Dental Medicine, Medical University of Sofia, Sofia, Bulgaria A TUBE (INTERCONNECTION UNDER UHV OF CHAMBERS FOR ELABORATION, AND CHARACTERIZATION FOR NOVEL MATERIALS) FOR MULTI-MATERIAL GROWTH AND MULTI-TECHNIC CHARACTERIZATION UNDER ULTRA HIGH VACUUM
	Maud Jullien ¹ , Stéphane Mangin, Danielle Pierre ¹ Institut Jean Lamour, Nancy, France
C1-I-P-TUE-P1-19	ANALISIS OF PLASMA NITRIDING PARAMETERS APPLIED IN HIGH SPEED STEEL CUTTING TOOLS
	<u>Undergraduating Marcus Rodriques</u> ¹ , Undergraduating Iverton Farias ¹ , Master Degree Armystron Araújo ^{1,2} 'Instituto Federal de Educação, Ciência e Tecnologia Do Piauí, Teresina, Brazil, ² Universidade Federal do Piauí, Teresina, Brazil
	DEPOSITION AND INVESTIGATION OF RESISTANT AL/NI COATINGS DEPOSITED BY PACK CEMENTATION
C1-I-P-TUE-P1-20	MSc Dimitra Kourtidou ¹ , Dr. Dimitrios Chaliampalias ¹ , PhD Dimitrios Karfaridis ¹ , PhD Christos Vogiatzis ¹ , Dr. Eleni Pavlidou ¹ , Dr. Stefanos Skolianos ¹ , Dr. Konstantinos Chrissafis ¹ , Dr. George Vourlias ¹ 'Aristotle University Of Thessaloniki, Thessaloniki, Greece

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
DI	Tuesday, September 19, 2017
PI -	Symposium C.2: Laser-based processing and manufacturing
	LASER PROCESSING OF THIN-FILM A-SI AS AN ABSORBER MATERIAL FOR ALTERNATIVE LOW-COST SILICON PHOTOVOLTAIC TECHNOLOGY
C2-P-TUE-P1-1	Sr Elías Saugar Gotor ¹ , Dr Susana María Fernández ¹ , Dr David Canteli ² , Sr Fernando García- Pérez ³ Dr Belén Gómez-Mancebo ³ , Dr Julio Cárabe ¹ , Dr Jose Javier Gandía ¹ , Dr Miguel Morales ² , Dr Carlos Molpeceres ²
	¹ Energy Department, CIEMAT, Madrid, Spain, ² Centro Láser, Universidad Politécnica de Madrid, Madrid, Spain, ³ Chemistry Division, CIEMAT, Madrid, Spain
	DEVELOPMENT OF AN Yb-BASED THIN DISK LASER SYSTEM USING AN INNOVATIVE PUMPING SCHEME
C2-P-TUE-P1-2	Dr. Paulo J. Morais ¹ , Dr. Rui Pereira ¹ , Dr. Helena Gouveia ¹ , Margarida Pinto ¹ ISQ - Instituto de Soldadura e Qualidade, Av. Prof. Dr. Cavaco Silva 33, 2740-120 Porto Salvo, Portugal
	FABRICATING MUSHROOM-LIKE MICRO-PATTERNS IN MULTILAYERED RESISTS USING LASER INTERFERENCE LITHOGRAPHY
C2-P-TUE-P1-3	<u>DiplIng. Florian Rößler</u> ¹ , DiplIng. Valentin Lang ^{1,2} , DrIng. Denise Günther ^{1,2} , Prof. DrIng. Andrés Fabián Lasagni ^{1,2} 1TU Dresden, Dresden, Germany, ² Fraunhofer IWS, Dresden, Germany
	EFFECTS OF LASER IRRADIATION ON THE COLD SPRAY DEPOSITION PROCESS
C2-P-TUE-P1-4	Dr. Gemma Vara Salazar ¹ , Dr. Patricia López-Ruiz ¹ , Dr. MArio Diaz ¹ , Mr Rubén Creo ¹ , Dr. MArio Guagliano ² , Dr. Sarah Bagherifard ²
	¹ IK4 CIDETEC, Surface Engineering Area, San Sebastián, Spain, ² Politecnico di Milano, Department of Mechanical Engineering, Milán, Italy
	INFLUENCE OF AN EXTERNAL ELECTRIC FIELD ON THE MORPHOLOGY OF NOBLE METAL NANOSTRUCTURES FABRICATED BY NANOSECOND LASER ABLATION IN WATER
C2-P-TUE-P1-5	Dr. Anastas Nikolov ¹ , Dr. Ivajlo Balchev ¹ , Dr. Daniela Karashanova ² , Dsc Nikolay Nedyalkov ¹ , PhD student Stefan Valkov ¹ , Dsc Petar Petrov ¹
	¹ Institute of Electronics, Bulgarian Academy Of Sciences, Sofia, Bulgaria, ² Institute of Optical Materials and Technologies, Bulgarian Academy of Sciences, Sofia, Bulgaria
C2-P-TUE-P1-6	ANALYTICAL APPROACH AND EXPERIMENTAL VALIDATION OF CEMENTED TUNGSTEN CARBIDE ULTRA-SHORT PULSE LASER ABLATION
02 1 102 1 1 0	M.Sc. Juan Pablo Calderon Urbina ¹ , Prof. DrIng. Claus Emmelmann ¹ 'Institute of Laser and System Technologies (iLAS) - Hamburg University of Technology (TUHH), Hamburg, Germany
	COMBINATION EFFECTS OF WATER AND EXCIMER LASER IRRADIATION ON A SET OF POLYMERS
C2-P-TUE-P1-7	Dr. Ilham El Aboudi ¹ , A. Mdarhri ¹ , S. Lazare ² , L. Servant ² , M. Castillejo ³ ¹ Laboratoire de la Matière Condensée et des Nanostructures, Faculté des Sciences et Techniques de Marrakech, Université Cadi Ayyad, BP, Avenue Abdelkrim Elkettabi, 40000 Marrakech, Maroc, Marrakech, Morocco, ² Institut des Sciences Moléculaires (ISM) UMR 5255, Université Bordeaux 1, 351 cours de la Libération, 33405 Talence, France, Talence, France, ³ Instituto de Química Física Rocasolano, CSIC, Serrano 119, 28006 Madrid, Spain, Madrid, Spain
	DIRECT LASER TRANSFER AND LASER REDUCTION OF GRAPHENE OXIDE FOR CHEMICAL SENSORS AND ORGANIC ELECTRONICS APPLICATIONS
C2-P-TUE-P1-8	Mr Simos Papazoglou², <u>Dr Konstantinos Petridis</u> ¹, Dr Maria Fillipidou³, Dr Stavros Chtzantroulis³, Dr Emannuel Kymakis⁴, Dr Ioanna Zergioti² ¹Technological Educational Institute Of Crete ,Chania, Greece, ²School of Applied Mathematical and Physical Sciences, National Technical University of Athens, Athens, Greece, Heroon Polytechneiou 9, 157 80, Zografou/Athens, Greece, ³Institute of Nanoscience and Nanotechnology, E.K.E.F.E. Demokritos, Agia Paraskevi, 153 10/ Athens, Greece, *Center of Materials Technology & Photonics, Department of Electrical Engineering, Technological Educational Institute of Crete, Estavromenos, Heraklion, Crete, Greece, Estavromenos / Heraklion, Greece
C2-P-TUE-P1-9	SHELLAC THIN FILMS PATTERNS PREPARED BY LIFT FOR ORGANIC TRANSISTOR TECHNOLOGIES
	PhD Andreea Matei ¹ , PhD Alexandra Palla Papavlu ¹ , PhD Mihaela Filipescu ¹ , PhD Student Valentina Marascu ¹ , PhD Maria Dinescu ¹ 'National Institute For Lasers, Plasma And Radiation Physics, Romania
	LASER PROCESSING OF C-PPS AND C-PEEK CARBON FIBRE REINFORCED PLASTICS
C2-P-TUE-P1-10	Petr Hauschwitz ^{1,2} , Dr. Danijela Rostohar ¹ , Petr Gavrilov ² , Dr Tomas Mocek ¹ ¹ Hilase, Dolni Brezani, Czech Republic, ² Faculty of Nuclear Science and Physical Engineering Czech Technical University, Prague, Czech Republic

	TIME: 13:00–15:00 R00M: F0YER, E1/M1
Pl Pl	Tuesday, September 19, 2017
	Symposium C.2: Laser-based processing and manufacturing
C2-P-TUE-P1-11	FEMTOSECOND LASER-INDUCED PLASMA DYNAMICS SIMULATIONS IN FUSED SILICA AND WATER
	Javier Hernandez Rueda ¹ , Jasper Clarijs ¹ , Denise M. Krol ² , Dries van Oosten ¹ ¹ Universiteit Utrecht, Utrecht, Netherlands, ² University of California Davis, Davis, USA
C2-P-TUE-P1-12	SCATTERING PROPERTIES OF GOLD NANOPARTICLES INSIDE A QUADRUPOLE ION TRAP DURING FS-LASER IRRADIATION
	Javier Hernandez Rueda ¹ , Anne de Beurs ¹ , Dries van Oosten ¹ ¹ Universiteit Utrecht, Utrecht, Netherlands
C2-P-TUE-P1-13	STUDY AND SIMULATION OF LASER INDUCED FORWARD TRANSFER OF AG INKS
	A. Kalaitzis ¹ , I. Theodorakos ¹ , M. Makrygianni ¹ , A. Hatziapostolou ^{1,2} , I. Zergioti ¹ ¹ National Technical University of Athens, Physics Department, Iroon Polytehneiou 9, 15780, Zografou, Athens, Greece, ² Technological Educational Institute of Athens, Department of Energy Technology Engineering, Ag. Spyridinos 28, 12243, Aigaleo, Athens, Greece

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
DI	Tuesday, September 19, 2017
PI —	Symposium C.6: Joining
	EFFECT OF BRAZING PROCESS PARAMETERS AND THE CONTENT OF PD ON THE GROWTH OF INTERMETALLIC PHASES IN THE JOINT TIALV / TICUZRPD / TIALV
C6-P-TUE-P1-1	Ph.D. Anna Sypien ¹ , M.Sc. Kamil Badura ¹ , M.Sc Bogusz Kania ¹ 'Institute of Metallurgy and Materials Science, PAS, Krakow, Poland
	EFFECT OF WELDING PROCESS ON MICROSTRUCTURE AND MICRO HARDNESS OF ALUMINIUM JOINTS
C6-P-TUE-P1-2	Researcher Hakem Maamar¹ ¹Research Center in Industrial Technoligies CRTI (Ex CSC), Cheraga. Algiers, Algeria
	MICROSTRUCTURAL AND CORROSION BEHAVIOUR OF SHIELDED METAL ARC WELDED DISSIMILAR WELDMENTS BETWEEN DUPLEX AND LOW ALLOY STEELS
C6-P-TUE-P1-3	Brahim Belkessa ¹ , Pr. Djamel Miroud ² , Naima Ouali ¹ Research Center In Industrial Technologies, CRTI, Algeria, ² LGSM, USTHB, University of Algiers, Algeria
	COMPARISON OF THE PERFORMANCE OF AIRCRAFT REPAIR PATCHES CONSISTING OF RIVETED LAP JOINTS ON ALUMINIUM AND COMPOSITE SUBSTRATES
C6-P-TUE-P1-4	Mr. Siddharth Pitta ¹ , <u>DrEng. Jose I. Rojas</u> ¹ , Prof. Daniel Crespo ²
	¹ Department of Physics – Division of Aerospace Engineering, Universitat Politècnica de Catalunya, Castelldefels, Spain, ² Department of Physics, Universitat Politècnica de Catalunya, Castelldefels, Spain
	A METHODOLOGY TO CALCULATE DIFFUSION OF CARBON ACROSS THE BIMETALLIC BASE-CLAD INTERFACE OF WELDED OFFSHORE CLAD PIPES
C6-P-TUE-P1-5	Senior Research Scientist Dag Lindholm ¹
	¹Institute For Energy Technology, Kjeller, Norway
A/ D TUE D4 /	CORRELATION OF MICROSTRUCTURE AND MECHANICAL PROPERTIES IN WELDED JOINTS OF 12MnNivr Pressure Vessel Steel Subjected to high heat input electrogas welding
C6-P-TUE-P1-6	Yang Shen ¹ , Cong Wang ¹ 'School of Metallurgy, Northeastern University, Shenyang, China
0/ D THE D4 II	EFFECTS TiO2 CONTENT ON INCLUSION AND MICROSTRUCTURE EVOLUTION OF WELDED EH36 SHIPBUILDING STEEL
C6-P-TUE-P1-7	Ju Leng ¹ , Cong Wang ¹ 1School of Metallurgy, Northeastern University, Shenyang, China
	JOINING OF TIB2 CERAMIC WITH NIB ALLOY
C6-P-TUE-P1-8	Lixia Xi¹, Ivan Kaban, Peng He², Natalia Sobczak³, Jürgen Eckert⁴
	¹IFW Dresden, Dresden, Germany, ²Harbin Institute of Technology, Harbin, China, ³Foundry Research Institute Cracow, Cracow, Poland, ⁴Erich Schmid Institute of Materials Science, Leoben, Austria

	TIME: 13:00-15:00 R00M: F0YER, E1/M1
Pl Pl	Tuesday, September 19, 2017
• • •	Symposium C.6: Joining
	SUGGESTION OF AN INDICATOR TO EVALUATE MATERIAL DEPOSITION IN RESISTANCE SPOT WELDING: WELD SURFACE INTERACTION INDEX
C6-P-TUE-P1-9	Melih Kinagu¹, Dr. Cemil Günhan Erhuy², Mehmet Gökçe¹, Dr. Mustafa Mutlu¹, Fatih Ateş¹, Prof.Dr. Deniz Uzunsoy³
	¹ Ermetal Automotive, Bursa, Turkey, ² Barida Macine Industry, Bursa, Turkey, ³ Bursa Technical University, Bursa, Turkey
	CHARACTERIZATION OF FIBER LASER WELDED TC4/SS 304 JOINTS USING Cu INTERLAYER
C6-P-TUE-P1-10	Seyed Reza Elmi Hosseini¹, Zhuguo Li, Yuan Chen, Da Shu¹Shanghai Jiaotong University, Shanghai, China
	CA6NM STAINLESS STEEL SUBMITTED TO DIFFERENT THERMAL CYCLES IN THE GLEEBLE WELD SIMULATOR
C6-P-TUE-P1-11	Phd Maria Ismenia Sodero Faria¹, Ms Bruna Giacchero Lima¹,
	Mrs Julio César Lourenço ¹
	¹University of São Paulo, Lorena, Brazil
	THE EFFECT OF ADDING THERMAL SPRAYED INTERLAYER IN BRAZING CERMET TO CARBON STEEL
C6-P-TUE-P1-12	Mr Youcef Yahmi ¹ , Pr Djamel Miroud ² , Dr Bouzid Maamache ¹ , Mr Bellel Cheniti ¹
	Research Center In Industrial Technologies Crti (ex Csc) Bp 64, Cheraga, Algeria, Faculty of Mechanical Engineering and Engineering Processes, University of Science and Technology Houari Boumediene, Bp 32 El Alia 16111, Bab Ezzouar, Algeria
C6-P-TUE-P1-13	INFLUENCE OF WELDING TECHNIQUES ON MICROSTRUCTURE AND HARDNESS OF STEEL JOINTS USED IN AUTOMOTIVE AIR CONDITIONERS
	Piotr Noga ¹ , Łukasz Wzorek ¹ , Maria Richert ² , Marek Węglowski ³ , Patrycja Zimerska-Nowak ⁴
	¹AGH University of Science and Technology Faculty of Non-Ferrous Metals Krakow, Krakow, Poland, ²AGH University of Science and Technology Faculty of Management Krakow, Krakow, ³Welding Institute , Gliwice, Poland, ⁴Boryszew S.A, odział MAFLOW, Tychy, Polska

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
PI	Tuesday, September 19, 2017
PI —	Symposium D.1: Materials Science with Synchrotron Radiation X-rays
	ON THE MECHANISM OF THE Gan NANOCRYSTAL FORMATION IN SiO2 BY ION IMPLANTATION
D1-P-TUE-P1-1	<u>Dr. Maria Katsikin</u> i ¹ , Dr. Kyriakos Filintoglou ¹ , Dr. Fani Pinakidou ¹ , Paul Kutza ² , Philip Lorenz ² , Prof. Dr. Elke Wendler ² , Dr. Katharina Lorenz ³ , Prof. Dr. Eleni C. Paloura ¹ 'Aristotle University of Thessaloniki, School of Physics, Thessaloniki, Greece, 'Friedrich Schiller Universität Jena, Institut für
	Festkörperphysik, Jena, Germany, ³Instituto Superior Técnino, Bobadela , Portugal
	DARK FIELD X-RAY MICROSCOPY OF HEAT TREATMENT OF VARIOUS STEEL GRADES
D1-P-TUE-P1-2	Can Yildirim ¹ , Melanie Gauvin ² , Phil Cook ¹ , Henning F. Poulsen ³ , Roger Hubert ² , Carsten Detlefs ¹
	¹European Synchrotron Radiation Facility, 71 Avenue des Martyrs, CS40220, 38043, Grenoble, France, ²Onderzoeks Centrum voor de Aanwending van Staal, Pres.J.F. Kennedylaan 3, BE-9060, Zelzate, Belgium, ³Department of Physics, Technical University of Denmark, 2800 Kgs. Lyngby, Denmark
	MORPHOLOGY CHARACTERIZATION AND GROWTH MECHANISM OF PRIMARY SILICON PARTICLES IN THE HYPEREUTECTIC AL-SI ALLOYS VIA SYNCHROTRON X-RAY TOMOGRAPHY
D1-P-TUE-P1-3	Mr. Jun Wang ¹ , Dr. Zhipeng Guo ^{1,2} , Professor Shoumei Xiong ^{1,2}
	¹ School of Materials Science and Engineering, Tsinghua University, Beijing, China, ² Key Laboratory for Advanced Materials Processing Technology, Ministry of Education, Beijing, China
	TOTAL SCATTERING AND REVERSE MONTE-CARLO TECHNIQUES FOR THE ANALYSIS OF METALLIC SYSTEMS
D1-P-TUE-P1-4	Mr Lewis R Owen ^{1,2} , Dr Helen Y Playford ² , Dr Howard J Stone ¹ , Dr Matt Tucker ³
	¹ Department of Materials Science and Metallurgy, University Of Cambridge, Cambridge, UK, ² ISIS Neutron and Muon Source, STFC, Didcot, Oxford, UK, ³ Spallation Neuton Source, Oak Ridge National Laboratory, USA
	SYNCHROTRON QUANTIFICATION OF 4D FRACTURING DURING DOUBLE TORSION EXPERIMENTS
D1-P-TUE-P1-5	Dr Anne-Laure Fauchille ^{1,2} , Dr Mike Chandler ³ , Dr Sara Nonni ^{1,2} , Mr Sebastian Marussi ^{1,2} , Mr Hokyeom Kim ⁴ , Dr Mahmoud Mostafavi ⁴ , Dr Stephen Hedan ⁵ , Dr Julian Mecklenburgh ³ , Pr Peter Lee ^{1,2} ¹ School of Materials, University of Manchester, M13 9PJ, Manchester, United Kingdom, ² Research Complex at Harwell, Harwell Campus, OX11 0FA, Didcot, United Kingdom, ³ School of Earth, Atmospheric, and Environmental Sciences, University of Manchester, M13 9WJ, Manchester, United Kingdom, ⁴ Department of Mechanical Engineering, University of Bristol, Queen's
	Building, BS8 1TR, Bristol, United Kingdom, ⁵ Institut de Chimie des Milieux et Materiaux de Poitiers, ENSIP, UMR 7285 HydrASA, Poitiers, France
	SYNCHROTRON XRD ANALYSIS DURING THE SYNTHESIS AND CO2 CAPTURE OF Li8Si06
D1-P-TUE-P1-6	Dr Federico Cova¹, Eng Guillermina Amica², <u>Dr Maria Blanco</u> ³
	¹Neel Institute , Grenoble, France, ²Bariloche Atomic Center, San Carlos de Bariloche, Argentine, ³European Synchrotron Radiation Facility , Grenoble, France
	DEVELOPMENT OF A RIG FOR THE IN SITU SYNCHROTRON X-RAY IMAGING OF THE NUCLEATION AND GROWTH OF BUBBLES AND CRYSTALS IN BASALTIC MAGMAS
D1-P-TUE-P1-7	Nolwenn Le Gall ^{1,2} , Biao Cai ^{1,2} , Fabio Arzilli ³ , Robert Atwood ^{2,4} , Sara Nonni ^{1,2} , Peter Rockett ^{1,2} , Richard Brooker ⁵ , Peter Lee ¹ , ²
	¹ School of Materials, University of Manchester, Manchester, UK, ² Research Complex at Harwell, Rutherford Appleton Laboratories, Didcot, UK, ³ School of Earth and Environmental Sciences, University of Manchester, Manchester, UK, ⁴ Diamond Light Source Ltd, Harwell Science and Innovation Campus, Didcot, UK, ⁵ School of Earth Sciences, University of Bristol, Bristol, UK
	CRYSTALLIZATION KINETICS OF METALLIC GLASSES VIA FEMTOSECOND LASER HEATING
D1-P-TUE-P1-8	<u>Dr. Jerzy Antonowicz</u> ¹ , Dr. Ryszard Sobierajski ³ , Dr. Peter Zalden ² , Dr. Klaus Sokolowski-Tinten ⁵ , Dr. Anna Pietnoczka ¹ , Prof. Dr. Olaf Magnussen ⁶ , Dr. Christoph Lemke ⁶ , Dr. Konstantinos Georgarakis ⁷ , Prof. Dr. Alan Lindsay Greer ⁸ , Dr. Uta Ruett ⁹ , Dr. Karthick Perumal ⁹ , Mr. Jonas Warias ⁶ , Dr. Bridget Murphy ⁶
	¹ Warsaw University Of Technology, Warsaw, Poland, ² Universitaet Hamburg, , Germany, ³ Institute of Physics Polish Academy of Sciences, , Poland, ⁴ Universitaet Duisburg-Essen, Germany, ⁵ Universitaet Duisburg-Essen, Germany, ⁶ Christian-Albrechts-Universitaet Kiel, Germany, ⁷ Cranfield University, United Kingdom, 8University of Cambridge, United Kingdom, 9DESY, Germany

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
PI	Tuesday, September 19, 2017
г	Symposium D.1: Materials Science with Synchrotron Radiation X-rays
D1-P-TUE-P1-9	VANADIUM LOCAL STRUCTURE AND PHOTOINDUCED CHARGE TRANSFER IN NANOSTRUCTURED VANADIUM-DOPED TITANIA BY X-RAY ABSORPTION SPECTROSCOPY
	Dr. Luca Pasquini ¹ , Giacomo Rossi ¹ , Dr. Lucia Amidani ² , Dr. Federico Boscherini ¹ ¹ University of Bologna, Bologna, Italy, ² European Synchrotron Radiation Facility, Grenoble, France
	DETERMINATION OF DAMAGE MECHANISMS AND DAMAGE EVOLUTION DURING THERMOMECHANICAL FATIGUE OF CAST NEAR EUTECTIC AL-SI PISTON ALLOYS
D1-P-TUE-P1-10	Katrin Bugelnig ¹ , Holger Germann ² , Thomas Steffens ² , Fabian Wilde ³ , Guillermo Requena ⁴ 'TU Vienna/E308, Vienna, Austria, ² KS Kolbenschmidt GmbH, Neckarsulm, Germany, ³ Helmholtz-Zentrum Geesthacht, Zentrum für Material- und Küstenforschung GmbH, Geesthacht, Germany, ⁴ German Aerospace Centre, Cologne, Germany
	LITHIUM ORTHOSILICATE: SYNTHESIS AND CO2 CAPTURE STUDIES BY IN-SITU SYNCHROTRON RADIATION POWDER X-RAY DIFFRACTION
D1-P-TUE-P1-11	Eng Maria Laura Grasso ^{1,2} , Dr Maria Blanco ³ , Dr Federico Cova ⁴ , Dr Pierre Larochette ^{1,2} , Dr Fabiana Gennari ^{1,2,5}
	¹ Balseiro Institute, San Carlos de Bariloche, Argentina, ² National Council for Scientific and Technical Research, CONICET, Argentina, ³ European Synchrotron Radiation Facility , Grenoble, France, ⁴ Neel Institute, Grenoble, France, ⁵ Bariloche Atomic Center, San Carlos de Bariloche, Argentina
D1-P-TUE-P1-12	MOLECULAR CONFORMATION (DFT) AND INFLUENCE OF METHYL CH ³ RADICAL ON THE CRYSTAL STRUCTURE OF 3,5-DIBROMO-4-METHYLPYRIDINE
	Meriem Medjani ¹ , Ouarda Brihi ¹ , Samir Meskaldji ² , Ali Boudjada ¹ , Jean Meinnel ³ ¹ Laboratory of crystallography, Department of Physics, Algeria, ² École Normal Supérieur d'Enseignement Technologique, Skikda, Algeria, ³ University of Rennes ¹ , CNRS (UM R 6626), France
D1-P-TUE-P1-13	A NOVEL OPERANDO HERFD-XANES CELL FOR STUDYING PHOTOELECTROCHEMICAL WATER-SPLITTING
	Philipp Jäker ¹ , Till Kyburz ¹ , Dr Dorota Koziej ^{1,2} ¹ ETH Zurich, Department of Materials, 8093 Zurich, Switzerland, ² University of Hamburg, Institutes of Nanostructures and Solid State Physics, Center for Hybrid Nanostructures, 20251 Hamburg, Germany

	TIME: 13:00-15:00 R00M: F0YER, E1/M1
DI I	Tuesday, September 19, 2017
r i	Symposium D.1: Materials Science with Synchrotron Radiation X-rays
	X-RAY SCATTERING STUDY ON THE INFLUENCE OF ADDITIVES IN SPIN-CAST BULK HETEROJUNCTION SOLAR CELLS
D1-P-TUE-P1-14	Kang Wei Chou ¹ , Cheng Wang ² , Detlef Smilgies ³ , Aram Amassian ⁴ 'Henkel Ibérica S.A., Bellaterra, Spain, ² Advanced Light Source, Berkeley, USA, ³ Cornell High Energy Synchrotron Source, Ithaca, USA, ⁴ King Abdullah University of Science and Technology, Thuwal, Saudi Arabia
D4 D THE D4 45	MICRO AND CONVENTIONAL XAFS STUDY OF INCINERATED Cr-RICH TANNERY SLUDGE
D1-P-TUE-P1-15	Dr. Fani Pinakidou¹, Dr. Maria Katsikini ¹, Dr. Savas Varitis¹, Prof. Dr. Eleni C. Paloura¹ ¹Aristotle University of Thessaloniki, School of Physics, Section of Solid State Physics, Greece
	STRUCTURAL CHARACTERIZATION OF THE Ni55Fe19Ga26 SHAPE MEMORY ALLOY THIN FILM BY X-RAY ABSORPTION SPECTROSCOPY
D1-P-TUE-P1-16	Mr. N. Patra ¹ , Dr. A. Biswas ¹ , Dr. C.L. Prajapat ¹ , Dr. P.U. Sastry ¹ , Dr. S. Tripathi ² , Dr. S.N. Jha ¹ , Dr. D. Bhattacharyya ¹ Bhabha Atomic Research Centre, Mumbai, India, ² Bhabha Atomic Research Centre, Visakhapatnam, India
	REDUCTION PROCESSES IN CERIUM OXIDE NANOSTRUCTURES
D1-P-TUE-P1-17	Dr. Paola Luches ¹ , Mr. Gabriele Gasperi ^{1,2} , Mr. Francesco Benedetti ^{1,2} , Mr. Jacopo Stefano Pelli Cresi ^{1,2} Dr. Maria Chiara Spadaro ^{1,2} , Prof. Sergio D'Addato ^{1,2} , Prof. Sergio Valeri ^{1,2} , Dr. Lucia Amidani ³ , Dr. Pieter Glatzel ³ , Prof. Federico Boscherini ^{4,5} **Istituto Nanoscienze, Consiglio Nazionale delle Ricerche, Modena, Italy, **Dipartimento di Scienze Fisiche Informatiche e
	Matematiche, Univ. di Modena e Reggio Emilia, Modena, Italy, ³ ESRF, Grenoble, France, ⁴ Dipartimento di Fisica e Astronomia, Università di Bologna, Bologna, Italy, ⁵ Istituto Officina dei Materiali, Consiglio Nazionale delle Ricerche, Trieste, Italy
	LOCAL ATOMIC STRUCTURE OF THIN FILM TI-Cu METALLIC GLASSES - AN EXAFS STUDY
D1-P-TUE-P1-18	Dr. Anna Pietnoczka¹, Dr. Jerzy Antonowicz¹ , Dr. Nikolaos T. Panagiotopoulos², Prof. Georgios A. Evangelakis², Prof. Alberto Moreira Jorge Jr.³, Dr. Aras Kartouzian⁴, Dr. Sakura Pascarelli⁵, Dr. Olivier Mathon⁵, Dr. Vera Cuartero⁵ ¹Warsaw University Of Technology, ²University of Ioannina, ³Universidade Federal de Sao Carlos, ⁴Technische Universität München, ⁵European Synchrotron Radiation Facility
	EVALUATION OF MOLECULAR ORIENTATION IN PHOTOREACTIVE LIQUID CRYSTALLINE POLYMER FILMS BY THREE KINDS OF NEXAFS MEASUREMENTS
D1-P-TUE-P1-19	Yuichi Haruyama, M Okada, E Nishioka, M Kondo, N Kawatsuki, S Matsui
	**University of Hyogo, Kamigori, Ako, Japan X-RAY EMISSION SPECTROSCOPY WITHIN THE AXSIS PROJECT: ELECTRONIC DYNAMICS AND UNDAMAGED ELECTRONIC STRUCTURE STUDY OF PHOTOSYSTEM II
D1-P-TUE-P1-20	<u>Dr. Victoria Mazalova</u> ¹ , Dr. Romain Letrun ¹ , Dr. Iosifina Sarrou ¹ , Prof. Petra Fromme ² ¹ Center for Free Electron Laser Science, DESY, Hamburg, Germany, Department of Chemistry and Biochemistry, Arizona State
	University, Tempe, USA
	IN-SITU X-RAY DIFFRACTION TENSILE TESTING OF AN AUSTENITIC CREEP-ENHANCED STAINLESS STEEL
D1-P-TUE-P1-21	Ryan Smith ¹ , Mahmut Cinbiz ³ , Jun-Sung Park ² , Jonathan Almer ² , Djamel Kaoumi . 'North Carolina State University, Raleigh, United States, ² Argonne National Laboratory, Argonne, united states, '30th Bidea National Laboratory, Only Bidea writed states,
	30ak Ridge National Laboratory, 0ak Ridge, united states SYNCHROTRON X-RAY STUDIES AT HIGH PRESSURE, HIGH TEMPERATURES IN A LARGE VOLUME PRESS
D1-P-TUE-P1-22	<u>Dr. Christian Lathe</u> ¹ , Dr. Joern Lauterjung ¹
	'GFZ German Research Centre For Geosciences, Potsdam, Germany SPACE AND TIME RESOLVED INVESTIGATION OF CHEMICAL REACTIONS ALONG REACTOR BED BY OPERANDO X-RAY ABSORPTION SPECTROSCOPY
D1-P-TUE-P1-23	Dr. Diego Gianolio ¹ , Dr Stephen Parry ¹ , Dr Giannantonio Cibin ¹ , Dr John D. Holbrey ² , Prof Mark A. Newton ³ , Dr King Kuok (Mimi) Hii ⁴ , Prof Klaus Hellgardt ⁵
	¹ Diamond Light Source, Harwell Science & Innovation Campus, Didcot, OX11 ODE, United Kingdom, ² QUILL, School of Chemistry and Chemical Engineering, The Queen's University of Belfast, Belfast, BT9 5AG, United Kingdom, ³ Department of Physics, University of Warwick, Gibbet Hill Road, Coventry, CV4 7AL, United Kingdom, ⁵ Department of Chemistry, Imperial College London, South Kensington, London, SW7 2AZ, United Kingdom, ⁵ Department of Chemical Engineering, Imperial College London, South Kensington, London SW7 2AZ, UK, United Kingdom

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	TIME. 10.00 10.00
Tuesday, September 19, 2017	
	Symposium D.1: Materials Science with Synchrotron Radiation X-rays
D1-P-TUE-P1-24	PRELIMINARY RESULTS ON TI-ZEOLITES TO TEST THE NEW NEXAFS CATALYTIC SET-UP AT APE BEAMLINE
	Luca Braglia ^{1,2} , Matteo Signorile ¹ , Ilya Pankin ¹ , ² , Elena Groppo ¹ , Alessandro Damin ¹ , Silvia Bordiga ^{1,3} , Piero Torelli ⁴ , Carlo Lamberti ^{2,5}
	¹ Department of Chemistry, NIS and INSTM Reference Centers, University of Turin, Turin, Italy, ² IRC "Smart Materials", Southern Federal University, Rostov on Don, Russia, ³ inGAP Centre for Research Based Innovation, Dept. of Chemistry, University of Oslo, Oslo, Norway, ⁴ Elettra—Sincrotrone Trieste S.C.p.A., Trieste, Italy, ⁵ Department of Chemistry, CrisDi Interdepartmental Centre and INSRM reference University of Turin, Turin, Italy
	ALIOVALENT DOPING IN COLLOIDAL QUANTUM DOTS: XAFS
D1-P-TUE-P1-25	Prof. Federico Boscherini ¹ , Dr Alexandros Stavrinadis ² , Dr. Jacopo Pelli Cresi ³ , Dr. Francesco d'Acapito ⁴ , Dr César Magén ⁵ , Dr Gerasimos Konstantatos ²
	¹University of Bologna, Bologna, Italy, ²ICFO, Barcelona, Spain, ³University of Modena and Reggio Emilia, Modena, Italy, 4CNR-10M, c/o ESRF, Grenoble, France, ⁵INA-ARAID, University of Zaragoza, Zaragoza, Spain
	DEVELOPMENT AND APPLICATION OF LABORATORY-BASED IN SITU X-RAY MICROSCOPY
D1-P-TUE-P1-26	<u>Leah Lucas Lavery</u> ¹ , Hrishikesh Bale ¹ , Jeff Gelb ¹ , Luke Hunter ¹ , Lars-Oliver Kautschor ¹ ¹ Carl Zeiss X-ray Microscopy, Pleasanton, United States
	IN-SITU NANO X-RAY MICROSCOPY: VISUALIZING THE GROWTH OF POLYCRYSTALLINE THIN FILM SOLAR ABSORBERS
D1-P-TUE-P1-27	B. West¹, M. Stuckelberger¹, R. J. Lovelett², S. Soltanmohammad², B. Lai³, J. M. Maser³, W.N. Shafarman², Mariana Bertoni ¹
	¹ Defect Lab, School of Electrical, Computer and Energy Engineering, Arizona State University, Tempe, United States, ² Institute of Energy Conversion, Department of Chemical and Biomolecular Engineering, Newark, United States, ³ Advanced Photon Source, Argonne National Laboratory, Argonne, United States
	BEAM-INDUCED DYNAMICS IN GLASSES
D1-P-TUE-P1-28	Mr. Christoph Tietz ¹ , Ms. Katharina Holzweber ¹ , Mr. Michael Legenstein ¹ , Dr. Markus Stana ¹ , Dr. Manuel Ross ¹ , Prof. Bogdan Sepiol ¹
	¹University Of Vienna, Vienna, Austria
	SYNCHROTRON QUANTIFICATION OF SHALE FRACTURE DURING INDENTATION
D1-P-TUE-P1-29	Dr Anne-Laure Fauchille ^{1,2} , Dr Mike Chandler ³ , Dr Lin Ma ³ , Dr Patrick Dowey ³ , Pr Ernest Rutter ³ , Dr Julian Mecklenburgh ³ , M Sebastian Marussi ^{1,2} , Dr Francesco Iacoviello ⁴ , Pr Kevin Taylor ³ , Pr Peter Lee ^{1,2}
	¹ Manchester X-Ray Imaging Facility, School of Materials, the University of Manchester, UK, Didcot, United Kingdom, ² Research Complex at Harwell, Rutherford Appleton Laboratory, Didcot, United Kingdom, ³ School of Earth and Environmental Sciences, the University of Manchester, Manchester, United Kingdom, ⁴ University College London, Department of Chemical Engineering, London, United Kingdom
	REAL-TIME CHEMICAL IMAGING OF FUNCTIONAL MATERIALS UNDER OPERATING CONDITIONS
D1-P-TUE-P1-30	Mr Antonios Vamvakeros ^{1,2,3} , Professor Andrew M. Beale ^{1,2} , Dr. Simon D. M. Jacques ² , Dr. Vesna Middelkoop ⁴ , Dr. Marco Di Michiel ³
	¹ University College London, London, United Kingdom, ² Finden Ltd., Abingdon, United Kingdom, ³ ESRF, Grenoble, France, ⁴ Flemish Institute for Technological Research (VITO), Mol, Belgium

	TIME: 13:00-15:00 R00M: F0YER, E1/M1
	Tuesday, September 19, 2017
P1 -	Symposium D.2: Nanoscale Materials Characterization and Modeling by Advanced Microscopy Methods
_	SYNTHESIS OF NANO IRON COPPER CORE SHELL BY USING K-M REACTOR
D2-P-TUE-P1-1	Dr Mohamed Hammad ¹
	¹Cmrdi, Giza, Egypt
	SHOCKLEY PARTIAL DISLOCATIONS IN GALLIUM NITRIDE
	Doctor Imad Belabbas¹, Doctor George Dimitrakopulos ², Doctor Joseph Kioseoglou², Doctor Julita Smalc-Koziorowska³, Doctor Jun Chen⁴
D2-P-TUE-P1-2	Laboratoire de Physico-Chimie des Matériaux et Catalyse. Faculté des Sciences Exactes, Université de Bejaia 06000, Algeria, Bejaia, Algeria, ² Department of Physics, Aristotle University of Thessaloniki, GR-54124 Thessaloniki, Greece, Thessaloniki, Greece, ³ Institute of High Pressure Physics, Polish Academy of Sciences, Sokolowska 29/37, 01-142 Warsaw, Poland., Warsaw, Poland, ⁴ CIMAP-Alençon, UMR6252, CNRS-CEA-ENSICAEN, Université de Caen Basse-Normandie, 14032, France, Alençon, France
	NANOSCALE CHARACTERIZATION OF THE SURFACE STRUCTURE OF 1T-TaS2
D2-P-TUE-P1-3	Elpida Zormpa ¹ , Zbigniew Klusek ² , Ioannis Arvanitidis ¹
	¹Physics Department, Aristotle University of Thessaloniki, Thessaloniki, Greece, ²Department of Solid State Physics, University of Lodz, Lodz, Poland
	INVESTIGATION OF THE STRANSKI-KRASTANOW GROWTH OF SIGE/SI AND GE/SI BY A COMPARISON OF ANALYTICAL TRANSMISSION ELECTRON MICROSCOPY WITH SEGREGATION MODELLING
D2-P-TUE-P1-4	Dr David J Norris¹, <u>Dr Thomas Walther</u> ¹
	¹University Of Sheffield, Sheffield, United Kingdom
	NANOSCALE CHARACTERISTICS OF SOLUTION-GROWN In203/ZnO HETEROJUNCTIONS
D2-P-TUE-P1-5	Dr. Thomas Kehagias ¹ , Dr. George P. Dimitrakopulos ¹ , Mr. Isaak G. Vasileiadis ¹ , Dr. Hendrik Faber ² , Dr. Ivan Isakov ² , Dr. Panos P. Patsalas ¹ , Dr. Thomas D. Anthopoulos ^{2,3} Department of Physics, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, ² Department of Physics and Centre for Plastic Electronics, Blackett Laboratory, Imperial College London, London SW7 2AZ, United Kingdom, ³ Materials Science and Engineering Division of Physical Sciences and Engineering, King Abdullah University of Science and Technology, Thuwal 23955-6900, Saudi Arabia
	MICROSTRUCTURAL EVOLUTION IN Ingan EPITAXIAL FILMS ON AIN AND GAN TEMPLATES
D2-P-TUE-P1-6	Dr Calliope Bazioti ¹ , Elena Papadomanolaki ^{2,3} , Assist. Professor Julita Smalc-Koziorowska ⁴ , Professor Thomas Kehagias ¹ , Assist. Professor Eleftherios Iliopoulos ^{2,3} , Associate Professor Georgios Dimitrakopulos ¹
	¹Physics Department, Aristotle University Of Thessaloniki, Thessaloniki, Greece, ²Microelectronics Research Group (MRG), IESL, FORTH, Heraklion Crete, Greece, ³Physics Department, University of Crete, Heraklion Crete, Greece, ⁴Institute of High Pressure Physics, Polish Academy of Sciences, Warsaw, Poland
D0 D THE D1 7	TEM STUDY OF THE STRUCTURAL DEFECTS FORMATION IN ELECTRON IRRADIATED CADMIUM TELLURIDE
D2-P-TUE-P1-7	Yuri Loginov ¹ , Paul Brown ² , Igor Kovalev ¹ , Pavel Zelenkov ¹
	¹ Siberian State Aerospace University, Krasnoyarsk, Russian Federation, ² University of Nottingham, Nottingham, UK
	NANOSCALE EVALUATION OF INTERFACES IN Fe/Pt BILAYERS FOR SPIN-PUMPING
D2-P-TUE-P1-8	Dr. Thomas Kehaqias ¹ , Dr. George P. Dimitrakopulos ¹ , Dr. Sascha Keller ² , Mr. Dimitrios Karfaridis ¹ , Dr. George Vourlias ¹ , Dr. Evangelos Papaioannou ² 'Department of Physics, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, ² Fachbereich Physik and
	Landesforschungszentrum OPTIMAS, Technische Universität Kaiserslautern, 67663 Kaiserslautern, Germany
D2-P-TUE-P1-9	DETERMINATION OF BI AND AL DISTRIBUTION IN (Ga,In)AS CORE NANOWIRES WITH (Ga,Al)As AND Ga(Bi,As) SHELLS BY FIB, STEM AND EDX
	Msc. Anna Kaleta ¹ , Profesor Sławomir Kret ¹ , MSc. Bogusawa Kurowska ¹ , MSc. Marta Bilska ¹ , Dr. Ana Sanchez ² , Profesor Janusz Sadowski ^{1,3,4}
	¹ Institute of Physics of Polish Academy of Sciences, al. Lotników 32/46, 02-668 Warsaw, Warsaw, Poland, ² Department of Physics, University of Warwick, Coventry CV4 7AL, Coventry, United Kingdom, ³ MAX-IV laboratory, Lund University, P.O. Box 118, 221 00 Lund, Lund, Sweden, ⁴ Department of Physics and Electrical Engineering, Linnaeus University, 391 82 Kalmar, Kalmar, Sweden
	Fe-X (X=Mn, Co, Cu) NANOCLUSTERS BY DENSITY FUNCTIONAL THEORY CALCULATIONS
D2-P-TUE-P1-10	Carla Cutrano ¹ , Konstantina Botsiou ¹ , Christina Lekka ¹ ¹ University Of Ioannina, Ioannina, Greece
	IMAGING AFM-METHODS YIELDING YOUNG'S MODULUS MAPS OF AN EPOXY/BOEHMITE NANOCOMPOSITE WITH HIGH SPATIAL RESOLUTION
D2-P-TUE-P1-11	Dr. Dorothee Silbernagl ¹ , M.Sc. Media Ghasem Zadeh Khorasani ¹ , Prof. Heinz Sturm ^{1,2} ¹ Bundesanstalt für Materialforschung und -prüfung, Berlin, Germany, ² Technische Universität Berlin, IWF, Berlin, Germany

	TIME: 13:00-15:00 R00M: F0YER, E1/M1
Tuesday, September 19, 2017	
	Symposium D.2: Nanoscale Materials Characterization and Modeling by Advanced Microscopy Methods
D2-P-TUE-P1-12	A COMPARATIVE APPROACH TO DETERMINING THE MECHANICAL PROPERTIES OF ULTRA-THIN COATINGS
	<u>Dr. Zhi Li</u> ¹, Dr. Uwe Brand
	¹Physikalisch-technische Bundesanstalt, Braunschweig, Germany
	THE IMPACT OF STRAIN ON THE ELASTIC CONSTANTS OF GAN AND INN
D2-P-TUE-P1-13	Mrs Maria Soumelidou ¹ , Prof. Imad Belabbas ² , Prof. Joseph Kioseoglou ¹ , Prof. Philomela Komninou ¹ , Prof. Jun Chen ³ , Prof. Theodoros Karakostas ¹ Department of Physics, Aristotle University of Thessaloniki, GR-54124 Thessaloniki, Greece, Thessaloniki, Greece, ² Groupe de Cristallographie et de Simulation des Matériaux, Laboratoire de Physico-Chimie des Matériaux et Catalyse, Faculté des Sciences Exactes, Université de Bejaia, Bejaia 06000, Algérie, Bejaia, Algérie, ³ CIMAP-Alençon, UMR ⁸²⁵² CNRS-CEA-ENSICAEN, Université de Caen Basse-Normandie, 14032 Caen cedex, France, Caen, France
	OPTIMIZATION OF SPECIMEN PREPARATION METHOD AND WORKING CONDITIONS FOR TRANSMISSION ELECTRON MICROSCOPY STUDY OF ORGANIC-INORGANIC PEROVSKITE CH3NH3Pbi3
D2-P-TUE-P1-14	Natalia Fernández Delgado ¹ , Miriam Herrera Collado ¹ , Francisco Javier Delgado ¹ , Emilio Juárez Pérez ² , Ivan Mora Sero ² , Sergio Ignacio Molina ¹ Department of Material Science, Metallurgical Engineering and Inorganic Chemistry, IMEYMAT, University of Cádiz, 11510, Puerto Real, Cádiz, Spain, ² INAM, Institute of Advanced Materials, Universitat Jaume I, 12006 Castelló, Spain
	POLY-SI FILMS CONSISTING OF SI WHISKERS CRYSTALLIZED BY NI METAL INDUCE LATERAL CRYSTALLIZATION AT TEMPERATURES AS LOW AS 413oC
D2-P-TUE-P1-16	Dr. Assist. Prof. Nikolaos Vouroutzis ¹ , Professor John Stoemenos ¹ , Professor Nikolaos Frangis ¹ , Dr G. Z. Radnóczi ² , Dr E. Dodony ^{2,3} , Dr Béla Pécz ²
	¹ Aristotle University of Thessaloniki, School of Physics, Thessaloniki, Greece, ² Hungarian Academy of Sciences, Institute for Technical Physics and Materials Sci., Budapest, Hungary, ³ Eötvös Loránd University, Doctoral School of Physics, Budapest, Hungary
D2-P-TUE-P1-17	SIMULATIONS REVEAL THE ROLE OF COMPOSITION INTO THE ATOMIC-LEVEL FLEXIBILITY OF BIOACTIVE GLASS CEMENTS
DZ-P-10E-P1-17	<u>Dr Devis Di Tommaso</u> ¹ , Dr Gregory Chass ¹ , Dr Kun Viviana Tian ² ¹ Queen Mary University College London, London, United Kingdom, ² University of Rome Tor Vergata, Rome, Italy
	TRANSMISSION ELECTRON MICROSCOPY STUDY OF Co DOPED Zno NANORODS
D2-P-TUE-P1-18	<u>Dr Nikos Boukos</u> ¹ , Dr Elias Sakellis ¹ , ² , Dr Marius Grundmann ³ , Dr Michael Lorenz ³ , Dr Chryssa Chandrinou ¹ , Dr Kostas Giannakopoulos ¹ , Dr Anastasios Travlos ¹
	¹ National Centre For Scientific Research "Demokritos", Institute of Nanoscience and Nanotechnology, Agia Paraskevi Attikis, Greece, ² University of Athens, Physics Department, Section of Solid State Physics, Zografos, Athens, Greece, ³ Institut für Experimentelle Physik II, Universität Leipzig, Leipzig, Germany
	APT AND t-EBSD OF SELF-FACETING GRAIN BOUNDARIES IN A NI-BASED ALLOY
D2-P-TUE-P1-19	Dr. Jae-Bok Seol ¹ , Dr. JW. Lee ² , Dr. SH. Na ³ , Dr. JH. Jang ⁴ , Dr. HU. Hong ¹ 'National Institute for Nanomaterials Technology, POSTECH, POHANG, South Korea, ² Department of Materials Science and Engineering, Changwon Natl. University, Changwon, South Korea, ³ Department of Materials Science and Engineering, POSTECH, POHANG, South Korea, ⁴ Ferrous Alloy Department, Korea Institute of Materials Science, Changwon, South Korea
D2-P-TUE-P1-20	INDENTATION-INDUCED PLASTIC DEFORMATION AND FRACTURE IN (0001) AND (10-10) Gan single crystals at the microscale and nanoscale
	Dr. Panagiotis Kavouras ^{1,2} , Dr. Ingmar Ratschinski ^{3,4} , George P. Dimitrakopulos ² , Dr. Hartmut Leipner ⁴ , Dr. Philomela Komninou ² , Dr. Gunnar Leibiger ⁵ , Dr. Frank Habel ⁵ ¹Research Unit of Advanced, Composite, Nano-Materials and Nanotechnology, School of Chemical Engineering, National Technical University of Athens, http://nanolab.chemeng.ntua.gr/, Attica, Athens, Greece, ²Department of Physics, Aristotle University of Thessaloniki, 54 124, Thessaloniki, Greece, ³Institut für Nichtmetallische Werkstoffe, Technische Universität Clausthal, 38678, Clausthal-Zellerfeld, Germany, ⁴Interdisziplinäres Zentrum für Materialwissenschaften, Martin-Luther-Universität Halle-Wittenberg, 06099, Halle, Germany, ⁵Freiberger Compound Materials GmbH, 09599, Freiberg, Germany
	NUMERICAL AND EXPERIMENTAL ELASTIC STRAIN PROFILING IN III-V SEMICONDUCTOR NANOSTRUCTURES
D2-P-TUE-P1-21	Ms Nikoletta Florini ¹ , Dr. George P. Dimitrakopulos ¹ , Dr. Joseph Kioseoglou ¹ , Dr. Nikolaos T. Pelekanos ^{2,3} , Dr. Thomas Kehagias ¹
	¹ Physics Department, Aristotle University Of Thessaloniki, GR-54124, Thessaloniki, Greece, ² Department of Materials Science and Technology, University of Crete, P.O. Box 2208, 70013 Heraklion, Greece, ³ Microelectronics Research Group, IESL-FORTH, P.O. Box 1385, 70013 Heraklion, Greece

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
DI	Tuesday, September 19, 2017
FI -	Symposium D.2: Nanoscale Materials Characterization and Modeling by Advanced Microscopy Methods
D2-P-TUE-P1-22	QUANTITATIVE ANALYSIS OF THE STEPPED-STRAINED 6H-SIC/ALN INTERFACE IN HEMT STRUCTURES
	Mrs. Alexandra Gkanatsiou ¹ , Mr. Christos Lioutas ¹ ¹ Solid State Physics Section, Department of Physics, Aristotle University of Thessaloniki, GR-54124 Thessaloniki, Greece
	LATERAL FORCE CALIBRATION IN ATOMIC FORCE MICROSCOPE USING MEMS MICROFORCE SENSOR.
D2-P-TUE-P1-23	Msc Wojciech Dera ¹ , Msc Cezary Dziekoński ¹ , Phd Dariusz Jarząbek ¹ 'Institute Of Fundamental Technological Research, Warsaw, Poland
	ELECTRON MICROSCOPY OF BILAYER Cu-Sb FILM
D2-P-TUE-P1-24	Aleksandra Bokuniaeva ¹ , Vladimir Kolosov, Lev Veretennikov, Anton Yushkov ¹ Ural Federal University, Ekaterinburg, Russian Federation
	OBSERVATION OF A NOVEL Al3Zr-n´ CORE-SHELL PARTICLE IN Al-Zn-Mg-Cu ALLOY
D2-P-TUE-P1-25	Doc. Fei Liu ¹ , Doc. Pucun Bai ¹ , Doc. Xiaohu Hou ¹ , Mr. Naiqiang Tong ¹ , Doc. Xiaoming Cui ¹ ¹ College Of Materials Science And Engineering, Inner Mongolia University Of Technology, Hohhot, China
	THREE-DIMENSIONAL STRUCTURE CHARACTERIZATION OF NANOTUBULAR METAL OXIDE FILMS
D2-P-TUE-P1-26	<u>Dr Mariusz Andrzejczuk</u> ¹, Dr Agata Roguska², Dr Marcin Pisarek², Prof. Małgorzata Lewandowska¹
	¹ Warsaw University of Technology, Faculty of Materials Science and Engineering, Warsaw, Poland, ² Polish Academy of Sciences, Institute of Physical Chemistry, Warsaw, Poland
	X-RAY PEAK BROADENING ANALYSIS AND CHARACTERIZATION OF SUB-MICRON Y203 PARTICLES SYNTHESIZED BY ULTRASONIC SPRAY PYROLYSIS METHOD
D2-P-TUE-P1-27	Elif Emil ^{1,2} , Sebahattin Gurmen ¹
	¹Istanbul Technical University, Department of Metallurgical & Materials Eng., Istanbul, Turkey, ²Turkish - German University, Department of Materials Science & Tech., Istanbul, Turkey
	IN-SITU ENVIRONMENTAL TRANSMISSION ELECTRON MICROSCOPY CHARACTERIZATION OF CATALYST MATERIALS
D2-P-TUE-P1-28	Phd Annett Thogersen ¹ , PhD Patricia Carvalho ¹ , PhD Mehdi Pishahang ¹ , Martin Sunding ¹ , PhD Anna Lind ¹ , PhD Yngve Larring ¹ , PhD Spyros Diplas ¹
	'SINTEF Materials and Chemistry, Oslo, Norway
D2-P-TUE-P1-29	STRUCTURAL CHARACTERIZATION AND NANOSCALE BANDGAP MEASUREMENTS OF (ZnO)1-x (GaN)x THIN FILMS
	C. Bazioti ¹ , C. S. Granerød ¹ , Olsen V. S. ¹ , Vines L. ¹ , B. G. Svensson ¹ , Prytz Ø ¹
	¹ Department of Physics, Center for Materials and Nanotechnology, University of Oslo, P.O. Box 1048 Blindern, N-0316, Oslo, Norway

	TIME: 13:00-15:00 R00M: F0YER, E1/M1
P1	Tuesday September 19, 2017
P I	Symposium D.4: Small scale mechanics, fracture, interface, experiments and modeling
D4-P-TUE-P1-1	EVALUATING THE ADHESION BETWEEN INP AND SI: A COMPARATIVE STUDY BETWEEN THE TRADITIONAL DCB EXPERIMENT AND ITS NANO-SCALE ANALOGUE
	Dr Konstantinos Pantzas ¹ , Dr Frank Fournel ² , Dr Gilles Patriarche ¹ , Dr Jean Decobert ⁴ , Dr Anne Talneau ¹ , Prof Eric Le Bourhis ³
	¹ Cnrs Center for Nanoscience and Nanotechnology, Marcoussis, France, ² CEA Leti, Grenoble, France, ³ Institut P', Chasseneuil, France, 43-5 Labs, Palaiseau, France
D4-P-TUE-P1-2	EUROPEAN MATERIALS CHARACTERISATION COUNCIL (EMCC)
	Dr. Costas Charitidis ^{1,2} , Dr Panagiotis Kavouras ¹ , Dr. Elias Koumoulos ¹ , ²
	¹ Research Unit of Advanced, Composite, Nano-Materials and Nanotechnology, School of Chemical Engineering, National Technical University of Athens, http://nanolab.chemeng.ntua.gr/, Athens, Greece, ² European Materials Characterisation Council (EMCC), http://www.characterisation.eu/

	TIME: 13:00–15:00 R00M: F0YER, E1/M1
P1	Tuesday September 19, 2017
F 1	Symposium D.4: Small scale mechanics, fracture, interface, experiments and modeling
	INDENTATION CREEP TESTING OF SUPERALLOYS WITH FLAT PUNCH INDENTER UP TO 800°C
D4-P-TUE-P1-3	Markus Kolb ¹ , Dr. Dorothea Matschkal ¹ , Dr. Steffen Neumeier ¹ , Prof. Mathias Göken ¹ **University Erlangen-Nürnberg, Erlangen, Germany
D4-P-TUE-P1-4	MECHANICAL CHARACTERIZATION OF HETEROGENEOUS MATERIALS BY MULTISCALE INSTRUMENTED INDENTATION
	Stephania Kossman ^{1,2} , Didier Chicot ¹ , Alain Iost ² , Philippe Dufrenoy ^{1,3,4} , Anne-Lise Cristol ^{1,3,4} , Vincent Magnier ^{1,4}
	¹ Universite de Lille, FRE 3723 - LML - Laboratoire de Mécanique de Lille, Villeneuve d'Ascq F-59650, France, ² Arts et Métiers ParisTech, MSMP, Lille 59800, France, ³ Ecole Centrale de Lille, LML, Villeneuve d'Ascq F-59650, France, ⁴ CNRS, UMR 8107, Villeneuve d'Ascq F-59650, France
	MICROMECHANICS OF FATIGUE CRACK INITIATION AND SMALL CRACK GROWTH IN AN ALUMINIUM ALLOY
D4-P-TUE-P1-5	Dr Panos Efthymiadis², <u>Senior Lecturer Christophe Pinna</u> , Professor John R Yates³
D4-P-10E-P1-3	¹ The University of Sheffield, Department of Mechanical Engineering, Solly Street, S1 4DE Sheffield, UK, Sheffield, United Kingdom, ² Warwick Manufacturing Group, International Manufacturing Centre, University of Warwick, Coventry CV4 7AL, UK, previously in the Department of Mechanical Engineering, the University of Sheffield, Mappin Street, Sheffield S1 3JD, UK, Coventry, UK, ³ Simuline Ltd., Derbyshire S18 1QD, UK, Derby, UK
	THE GRADELA MODEL AND TUNNEL ZONAL ROCK DISINTEGRATION
D4-P-TUE-P1-6	PhD student Anastasios Vafeidis ¹ , PhD student Cheng Chu ² , Postdoc student Ioannis Tsagrakis ¹ , <u>Professor Chengzhi Qi</u> ⁶ , Professor Elias Aifantis ^{1,3,4,5,6}
	¹Aristotle University, Thessaloniki, Greece, ²Nanjing University of Science and Technology, Nanjing, China, ³Michigan Technological University, Houghton, USA, ⁴ITMO University, St. Petersburg, Russia, ⁵Togliatti State University, Togliatti, Russia, ⁴Beijing University of Civil Engineering and Architecture, Beijing, China
	CHARACTERIZATION OF MULTILAYERS POROUS SILICON SYSTEMS BY MEANS OF NANOINDENTATION
D4-P-TUE-P1-7	Souheyla Fakiri ^{1,2} , Dr. Alex Montagne ³ , Dr. Khadija Rahmoun ¹ , <u>Pr. Alain Iost</u> ³ , Dr. Katir Ziouche ² 'URMER, Université Abou Bekr Belkaid, 13000 Tlemcen, Algeria, ² IEMN, UMR CNRS 8520 IEMN-DHS, 59652 Villeneuve d'Ascq, France, ³ MSMP, Arts et Métiers ParisTech, 59046 Lille, France
	TELEPHONE CORD BUCKLING METHODOLOGY FOR WAFER LEVEL NON-INVASIVE PROCESS TO STUDY MICROELECTRONIC INTERFACES ADHESION
D4-P-THU-P2-8	Anne Ponard ¹ , Gregory Imbert ¹ , Frederic Battegay ¹ , Faouzi Walid Saadoune ¹ , Guillaume Parry ² , Rafael Estevez ²
	¹STMicroelectronics, Crolles, France, ²Université Grenoble Alpes, Grenoble, France
D4-P-TUE-P1-9	EXTENDED MODELS OF PLATES BASED ON STRAIN GRADIENT ELASTICITY
D4-F-10E-F1-7	Prof Elias Aifantis, <u>Prof Victor Eremeyev</u> ¹ ¹Rzeszow University of Technology, Rzeszow, Poland
D4-P-TUE-P1-10	EXPERIMENTAL STUDY ON THE MECHANICAL PROPERTIES OF SUTURES USED IN VASCULAR SURGERY
	Mr Charis Tsivlitidis ¹ , Dr Anna D. Zervaki ¹ , Prof. Antonios Giannakopoulos ² ¹ Laboratory of Materials, Dept. of Mechanical Engineering, Pedion Areos, 38334 Volos, Greece, Volos, Greece, ² University Of Thessaly, Dept of Civil Engineering, Volos, Greece
	RECOGNITION OF A MATERIAL MICROSTRUCTURE BASED ON NEURAL NETWORK TECHNOLOGIES
D4-P-TUE-P1-11	Professor Valeriy Stolbov ¹ , student Grigoriy Aristov ¹ , seniur lectures Andrey Klyuev ¹ 1 Perm National Research Polytechnic University, Perm, Russian Federation
D4-P-TUE-P1-12	EFFECTIVE BEHAVIOR AND INVERSE MATERIAL CHARACTERIZATION OF SCAFFOLDS MADE OF POLYCAPROLACTONE
	Marios Pantazopoulos ^{1,2} , George Chatzigeorgiou³, Nikolaos Michailidis ^{1,2} , Fodil Meraghni³, Nicolas Charalambakis²
	Physical metallurgy Laboratory, Dept. of Mechanical Engineering, School of Engineering, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, ² 2 Center for Research & Development of Advanced Materials, KEDEK - AUTh Balkan Center, Building B', 10th km Thessaloniki-Thermi road, 57001, Thessaloniki, Greece, ³ LEM3-UMR 7239 CNRS, Arts et Metiers ParisTech Metz-Lorraine, Metz, France

	TIME: 13:00-15:00 R00M: F0YER, E1/M1
P1 -	Tuesday, September 19, 2017
PI	Symposium D.9: Qualification and modelling of structural and fuel materials for sustainable nuclear reactors
D9-P-TUE-P1-1	MICROSTRUCTURAL AND MECHANICAL CHARACTERIZATION OF THE MICROSTRUCTURES DEVELOPED IN A 14Cr ods alloy before and after ion irradiation by means of nanoindentation and transmission electron microscopy
	Elvira Oñorbe ¹ , Miguel Monclús ² , Cornelia Heintze ³ , Mercedes Hernandez Mayoral ¹ 'Ciemat, Madrid, Spain, ² IMDEA, Getafe, Spain, ³ HZDR, Dresden, Germany
	SOLUTE EFFECTS ON DISLOCATION PINNING IN Fe-BCC ALLOYS
D9-P-TUE-P1-2	Dr Maria Ines Pascuet ^{1,2} , Dr Enrique Martinez ³ , Dr Ghiat Monnet ⁴ , Dr Nicolas Castin ¹ , Dr Lorenzo Malerba ¹ 'SCK*CEN, Boeretang 200, Belgium, ² CONICET, (C1425FQB) CABA, Argentine, ³ Los Alamos National Laboratory, Los Alamos, USA, *EDF-R&D, Av des Renardières, France
	NANOINDENTATION STRESS-STRAIN CHARACTERISATION OF P91 STEELS AT ELEVATED TEMPERATURES
D9-P-TUE-P1-3	Ana Ruiz Moreno ¹ , Marcello Conte ² , Vendulka Haiblikova ² , Nicholas Randall ² , Peter Haehner ¹ 'European Commission. Joint Research Centre, Petten, The Netherlands, 'Anton Paar TriTec, Peseux, Switzerland
	FORMATION AND RE-ORIENTATION OF MULTI-PHASE HYDRIDES IN ZIRCONIUM: A MULTIPHASE FIELD MODELING STUDY
D9-P-TUE-P1-4	Dr. Mohsen Asle Zaeem ¹ , Dr. Jacob Bair ¹ 'Missouri University of Science and Technology, Rolla, United States
	CORROSION BEHAVIOUR OF HIGH ENTROPY ALLOYS EXPOSED TO OXYGEN-CONTAINING MOLTEN LEAD
D9-P-TUE-P1-5	<u>Dr. Adrian Jianu</u> ¹ , Dr. Alfons Weisenburger ¹ , Hao Shi ¹ , Dr. Annette Heinzel ¹ , Dr. Renate Fetzer ¹ , Prof. Ionelia Voiculescu ² , Prof. Victor Geanta ² , Prof. Georg Mueller ¹ 'Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen, Germany,
	² University Politehnica of Bucharest, Bucharest, Romania
	ALUMINA DETONATION SPRAY COATINGS FOR LEAD COOLED NUCLEAR REACTORS
D9-P-TUE-P1-6	Dr Claudio Mingazzini ¹ , Dr. Eng. Marco Utili ¹ , Mr. Alessandro Ventura ¹ , <u>Dr. Massimo Angiolini</u> ¹ , Mr. Angelo Tati ¹ , Dr. Fabio De Pascalis ¹ , Dr Michele Nacucchi ¹ , Dr. Eng. Pietro Agostini ¹ 'Enea, www.enea.it, (Faenza, Brasimone, Brindisi and Casaccia Research Centers) Italy
	A MULTIOBJECTIVE SEARCH FOR ALTERNATIVE TUNGSTEN ALLOYS IN NUCLEAR FUSION
D9-P-TUE-P1-7	Kurt Lejaeghere ¹ , Stefaan Cottenier ^{1,2} , Veronique Van Speybroeck ¹ ¹ Center for Molecular Modeling, Ghent University, Zwijnaarde, Belgium, ² Department of Electrical Energy, Metals, Mechanical Constructions and Systems, Ghent University, Zwijnaarde, Belgium
	ION-IRRADIATION-INDUCED HARDENING OF FeCr-NiSiP ALLOYS
D9-P-TUE-P1-8	<u>Dr. Cornelia Heintze</u> ¹ , Dr. Frank Bergner ¹ , Dr. Shavkat Akhmadaliev ¹ 'Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany
	MODELING THE INTERNAL FRICTION IN TERNARY BCC ALLOYS AT THE ATOMIC SCALE
D9-P-TUE-P1-9	Rafael Herschberg Basualdo ¹ , Dr. Frédéric Soisson ¹ , Dr. Chu Chun Fu ¹ , Dr. Maylise Nastar ¹ 'DEN-Service de Recherches de Métallurgie Physique, CEA, Université Paris-Saclay, Gif-sur-Yvette, France
	MECHANICAL BEHAVIOUR OF COATED T91 STEEL IN PBBI EUTECTIC
D9-P-TUE-P1-10	Fosca Di Gabriele¹, <u>Michal Chocholousek</u> ¹, Zbynek Spirit¹, Silvia Maria Deambrosis², Enrico Miorin², Francesco Montagner², Enrica Ricci², Espedito Vassallo³ ¹CVR, Rez, Czech Republic, ²IENI-CNR, Italy, ³IFP-CNR, Italy
	ASSESSMENT OF 15-15 TI STABILIZED STAINLESS STEEL FAST REACTOR CLADDING MATERIAL PROPERTIES BY RING COMPRESSION TESTING
D9-P-TUE-P1-11	Ing Hygreeva Kiran Namburi ¹ , D.Sc. (Tech) Stefan Holmström ² , Dr. Carlo Cristalli ³ , Dr. Rosario Giammusso ³ , Dr. Rémi Delville ⁴ , Ing. Michal Chocholousek ¹
	¹ Centrum Výzkumu Řež S. R. O., Husinec-rez, Czech Republic , ² European Commission, Joint Research Centre (JRC), Petten, Netherlands, ² ENEA, Brasimone (BO), Italy, ⁴ SCK.CEN, Mol (BE), Belgium
D9-P-TUE-P1-12	CHARACTERIZATION OF THE INDUCED MICROSTRUCTURE IN NEUTRON-IRRADIATED Fe-Cr-Based Model Alloys
	Andreas Ulbricht ¹ , Frank Bergner ¹ , Andre Heinemann ² ¹ Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany, ² Heinz-Maier-Leibnitz Zentrum Garching and Helmholtz-
	Zentrum Geesthacht, Germany

ROOM: FOYER, E1/M1

TIME: 13:00-15:00

DI	Tuesday, September 19, 2017
r i	Symposium D.9: Qualification and modelling of structural and fuel materials for sustainable nuclear reactors
D9-P-TUE-P1-13	AB INITIO STUDY OF OXIDE LAYERS FORMED DURING STEEL CORROSION IN LEAD-COOLED FAST REACTORS
	Stefano Matteo Cervino ¹ , Elena Macerata ¹ , Massimo Angiolini ² , Pietro Agostini ² , Mario Mariani ¹ ¹ Nuclear Engineering Division, Department of Energy, Politecnico di Milano, Milano, ² ENEA, Fusion and Technology for Nuclear Safety and Security Department, Brasimone Research Centre, Camugnano
D9-P-TUE-P1-14	COMPUTATIONAL STUDY OF DIFFUSION COEFFICIENTS IN Fe-Cr SPINEL WITHIN CORROSION PHENOMENA IN LEAD-COOLED FAST REACTORS
	Stefano Matteo Cervino ¹ , Elena Macerata ¹ , Massimo Angiolini ² , Pietro Agostini ² , Mario Mariani ¹
	¹ Nuclear Engineering Division, Department of Energy, Politecnico di Milano, Milano, , ² ENEA, Fusion and Technology for Nuclear Safety and Security Department, Brasimone Research Centre, Camugnano
	ALLOYING EFFECTS ON THE GROWTH MECHANISMS OF ZIRCONIUM ALLOYS UNDER IRRADIATION
D9-P-TUE-P1-15	Benjamin Christiaen ^{1,2,3} , Dr Alexandre Legris ^{2,3} , Christophe Domain ^{1,2} , <u>Ludovic Thuinet</u> ^{2,3} , Antoine Ambard ¹ , ²
	¹ EDF-R&D, Département Matériaux et Mécanique des Composants (MMC), Les Renardières, F-77818 Moret sur Loing Cedex, France, ² Laboratoire commun EDF-CNRS Etude et Modélisation des Microstructures pour le Vieillissement des Matériaux (EM²VM), France, ³ Unité Matériaux Et Transformations, UMET, UMR 8207, ENSCL, Université Lille ¹ , 59655 Villeneuve d'Ascq, France
	ADAPTIVE KINETIC MONTE CARLO SIMULATION OF SIMULATED DEFECT MIGRATION IN MOX FUEL
D9-P-TUE-P1-16	<u>Dr Mark Bankhead</u> ¹ , Miss Lucy Platts ¹ , Dr John Purton ² , Dr David Gunn ² 'National Nuclear Laboratory, Birchwood Park, Warrington, United Kingdom, 'STFC Daresbury Laboratory, Sci-Tech Daresbury,
	Warrington, United Kingdom
	FORMATION AND STABILITY OF C15 INTERSTITIAL CLUSTERS IN DILUTE FERRITIC ALLOYS
D9-P-TUE-P1-17	<u>Dr Luca Messina</u> ¹ , Dr Mihai Cosmin Marinica ¹ , Dr Maylise Nastar ¹ , Dr Christophe Domain ² , Prof. Charlotte S. Becquart ³ , Prof. Kazuto Arakawa ⁴
	¹ CEA Saclay, GIf-sur-Yvette, France, ² EDF R&D, Moret-sur-Loing, France, ³ Université de Lille ¹ , Villeneuve d'Ascq Cedex, France, ⁴ Shimane University, Shimane, Japan
	STABILITY OF VACANCY LOOPS CLOSE TO SURFACES IN a-Fe FROM MOLECULAR DYNAMICS SIMULATIONS
D9-P-TUE-P1-18	Emma Del Rio ¹ , Rosario Menendez-Alfonso ¹ , M.J. Aliaga ² , Manuel Perlado ¹ , M.J. Caturla ²
	¹Instituto de Fusion Nuclear - UPM, Spain, ²Departamento de Física Aplicada, Universidad de Alicante, Alicante, España, ³Departamento de Química Física, Universidad de Valencia, Valencia, Spain
D9-P-TUE-P1-19	STRUCTURAL MATERIALS CROSS-CUTTING ISSUES BETWEEN GenIV AND GenII/III FISSION REACTORS AND FUSION ENERGY SYSTEMS
	Jana Kalivodova ¹ , Karl-Fredrik Nilsson ² , Marta Serrano ³ , Massimo Angiolini ⁴ , Cristelle Pareige ⁵ , Lorenzo Malerba6
	'Centrum výzkumu Řež s.r.o., Prague, Czech Republic, 'European Commission Joint Research Centre (JRC), Westerduinweg 3, 1755ZG Petten, The Netherlands, 'Eentro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT), Departamento de Tecnología, División de Materiales de Interés Energético, Avda. Complutense 22, 28040 Madrid, Spain, 'ENEA Department for Fusion and Technologies for Nuclear Safety and Security, Rome, Italy, 'Groupe de Physique des Matériaux, Université et INSA de Rouen, UMR 6634 CNRS Avenue de l'Université, BP 12, 76801 Saint Etienne du Rouvray, France, 'Studiecentrum for Kernenergie • Centre d'études de l'énergie nucléaire (SCK•CEN), Boeretang 200, 2400 Mol, Belgium
D9-P-TUE-P1-20	NEUTRON IRRADIATION INDUCED MICROSTRUCTURES IN FERRITIC/MARTENSITIC STEEL HT9
	Ce Zheng ¹ , Elaina Anderson ² , Emmanuelle Marquis ² , Djamel Kaoumi ¹ North Carolina State University, Raleigh, United States, ² University of Michigan, Ann Arbor, United States

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
Pl	Tuesday, September 19, 2017
1 1	Symposium D.10: Multiscale Modeling of Materials
D10-I-P-TUE-P1-1	ATOMISTIC APPROACH OF INTERFACIAL POLYATOMIC SEGREGATION IN FCC METALLIC ALLOYS
	Balahouane Lezzar ¹ , Olivier Hardouin Duparc, Paidar Vaclav, Omar Khalfallah ¹ Constantine University, Constantine, Algeria, ² LSI, École Polytechnique, 91128 Palaiseau Cedex, France, Paris, ³ Institute of Physics ASCR, v.v.i., Prague, Czech Republic, Prague, ⁴ University 1 (UC1), 25000 Constantine, Algeria, Constantine
	A ROUTE TO PERMANENT VALLEY POLARIZATION IN MONOLAYER MoS2
D10-I-P-TUE-P1-2	<u>Dr. Nirpendra Singh</u> ¹ , Dr Udo Schwingenschlogl ¹ King Abdullah University Of Science And Technology, Thuwal, Saudi Arabia
	EXTENDED MOMENT FORMATION IN MONOLAYER WS2 DOPED WITH 3D TRANSITION METALS
D10-I-P-TUE-P1-3	<u>Dr. Nirpendra Singh</u> ¹ , Dr Udo Schwingenschlogl ¹ King Abdullah University Of Science And Technology, Thuwal, Saudi Arabia
D10_I_D_THE_D1_/	A NEW APPROACH TO MODELING BINDING ENERGY OF TRANSITION METAL NANOAGGREGATES (Nin, Fen, Con) FOR TECHNOLOGICAL APPLICATIONS
D10-I-P-TUE-P1-4	Miss Linda Achou 1Badji-mokhtar University, Annaba, Algeria
	MODELING ANISOTROPIC GRAIN GROWTH IN NICKEL SUPERALLOYS
D10-I-P-TUE-P1-5	Mr. Julien Fausty ¹ , Pr. Nathalie Bozzolo ¹ , Dr. Yuan Jin ² , Pr. Marc Bernacki ¹ ¹ Mines Paristech, Sophia Antipolis, France, 2Cenaero, Charleroi, Belgium
	MULTISCALE MODELING OF PRESSURE-ASSISTED SINTERING PROCESS
D10-I-P-TUE-P1-6	Ph.D. Szymon Nosewicz ¹ , Prof. Jerzy Rojek ¹ , Ph.D. Marcin Maździarz ¹ , Prof. Piotr Kowalczyk ¹ , M.Sc. Krzysztof Wawrzyk ¹ , Ph.D. Marcin Chmielewski ² , Prof. Katarzyna Pietrzak ² 'Institute of Fundamental Technological Research, Polish Academy of Sciences, Warsaw, Poland, 2Institute of Electronic Materials Technology, Poland
D40 I D THE D4 7	STRUCTURE, DYNAMICS AND THERMODYNAMICS OF LIGAND-SOLVENT SYSTEM OF IMPORTANCE IN NUCLEAR FUEL CYCLE: INSIGHT FROM MD SIMULATION USING DFT DERIVED PARTIAL ATOMIC CHARGES
D10-I-P-TUE-P1-7	Mr Arya Das ¹ , Mr Musharaf Ali ² 'Nuclear Recycle Board, Bhabha Atomic Research Centre, HBNI, Mumbai, India, 22Chemical Engineering Division, Bhabha Atomic Research Centre, HBNI, Mumbai, India
	DEVELOPMENT OF A NEW INTERATOMIC POTENTIAL FOR SI-U
D10-I-P-TUE-P1-8	Dr Julian Fernandez ^{1,2,3} , Dr Maria Ines Pascuet ² , <u>Dr Nicolas Castin</u> ⁶ ¹Comision Nacional de Energia Atomica, Buenos Aires, Argentina, ²CONICET, Buenos Aires, Argentina, ³UNSAM, Buenos Aires, Argentina, ⁴Belgian Nuclear Research Centre, SCK•CEN, Mol, Belgium
	MULTISCALE SIMULATION FOR HYPERBRANCHED POLYMERIZATION
D10-I-P-TUE-P1-9	Dr. Zidan Zhang ¹ , Jakub Krajniak ² , Prof. Dr. Erik Nies ¹ ¹Comision Nacional de Energia Atomica, Buenos Aires, Argentina, ²CONICET, Buenos Aires, Argentina, ³UNSAM, Buenos Aires, Argentina, ⁴Belgian Nuclear Research Centre, SCK•CEN, Mol, Belgium
	SURFACE PROPERTIES OF BaFe03 PEROVSKITE FROM FIRST PRINCIPLE CALCULATIONS
D10-I-P-TUE-P1-10	Nadia Iles ¹ , Prof. Ulrich Aschauer ² , Prof. Paul Bowen ¹ 'Laboratory Of Thin Films Physics And Materials For Electronics, Oran 'University, Oran, Algeria, Oran, Algeria
	FREE ENERGY CALCULATIONS OF ADSORPTION OF SIMULATED BODY FLUID IONS ON THE RUTILE (110) SURFACE
D10-I-P-TUE-P1-11	Ms. Azade Yazdan Yar ¹ , Prof. Ulrich Aschauer ² , Prof. Paul Bowen ¹ Laboratory of Powder Technology (LTP), Department of Materials Science and Engineering, EPFL, Lausanne, Switzerland, ² Department of Chemistry and Biochemistry, University of Bern, Bern, Switzerland
	MONTE CARLO SIMULATION OF GRAIN GROWTH IN COMMERCIALLY PURE TITANIUM
D10-I-P-TUE-P1-12	Dr Abdelhak Ayad ^{1,2} , Doctorante Yousra Bassot ² , Pr Nadjet Rouag ² , Pr Francis Wagner ³ 1Département De Pharmacie, Faculté de Médecine, Université de Constantine 3, Nouvelle Vile Ali Mendjeli, Bp 67a, Algeria, 2Laboratoire des microstructures et défauts dans les matériaux, Université Frères Mentouri Constantine 1, Constantine, Algeria, 3LEM3, (CNRS-UMR 7239),Université de Lorraine, Ile du Saulcy, 57045 Metz, France

ROOM: FOYER, E1/M1

TIME: 13:00-15:00

PI	Tuesday, September 19, 2017
• •	Symposium E.1: Hydrogen production, conversion, and storage
E1-P-TUE-P1-1	SYNTHESIS AND CHARACTERISATION OF B-SUBSTITUTED NANOPOROUS CARBONS WITH HIGH ENERGY OF HYDROGEN ADSORPTION
	Katarzyna Walczak¹, dr Vanessa Coulet², dr Thomas Neisius³, prof Catherine Journet-Gautier⁴, dr Christophe Goze-Bac¹, dr Philip Llewellyn², Andrew Gillespie⁵, prof Peter Pfeifer⁵, prof Bogdan Kuchta², prof Lucyna Firlej¹ 1Laboratoire Charles Coulomb (L2C), UMR 5221 CNRS-Université de Montpellier, Montpellier, France, ²Laboratoire MADIREL, UMR 7246 CNRS-Aix-Marseille Université, Marseille, France, ³IM2NP, UMR 7334, CNRS-Aix-Marseille Université, Marseille, France, ⁴LMI, UMR 5615, Université Claude Bernard, Lyon, France, ⁵Department of Physics and Astronomy, University of Missouri, Columbia, USA
	ANION AND CATION EXCHANGE MEMBRANES FOR ENERGY CONVERSION: A COMPARISON
E1-P-TUE-P1-2	<u>Professor Maria-Luisa Di Vona</u> ¹ , Dr Riccardo Narducci ^{1,2,3} , Mr Ivan Vito Ferrari ^{1,2,3} , Dr Emanuela Sgreccia ^{1,3} , Professor Philippe Knauth ^{2,3}
	¹ University of Rome Tor Vergata, Roma, Italy, ² Aix Marseille University, Marseille, France, ³ International Associated Laboratory (L.I.A.), Ionomer Materials for Energy, Italy/France
	CARBONIZED POLYPYRROLE WITH DIFFERENT MORPHOLOGY AS ANODE MODIFIER IN MICROBIAL FUEL CELL
E1-P-TUE-P1-3	<u>Dr Anca Dumitru</u> ¹ , Dr Silviu Vulpe ¹ , Dr Adrian Radu ¹ , Dr Corina Bradu ² , Dr. Sorin Avramescu ³ , Dr. Carmen Mariana Chifiriuc ² , Dr. Alina Olaru ² "University of Bucharest, Faculty of Physics, Magurele, Romania, "University of Bucharest, Faculty of Biology, Bucharest, Romania, "University of Bucharest, Faculty of Chemistry, Romania,"
E1-P-TUE-P1-4	OXIDATION AND HALIDE DOPING IN g-C3N4 AS VIABLE ROUTES TO IMPROVE THE PHOTOCATALYTIC PERFORMANCE
	Ambra Pisanu¹, Dr Andrea Bernasconi¹, Dr Chiara Milanese¹, Dr Antonella Profumo¹, Dr Andrea Speltini¹, Dr Michela Sturini¹, Dr Lorenzo Malavasi¹¹Università Di Pavia, Pavia, Italy
	HIGH-TEMPERATURE ELECTROLYSIS IN CO-GENERATION - PRELIMINARY EXPERIMENTAL RESULTS
E1-P-TUE-P1-5	<u>DrIng. Karin Stehlík</u> ¹, ing. Martin Tkáč¹.² ¹Research Center Rez, Husinec-Rez, Czech Republic, ²University of Chemistry and Technology, Prague, Czech Republic
	DESIGN AND CHARACTERIZATION OF NOVEL GLASS-CERAMIC SEALANTS FOR SOLID OXIDE ELECTROLYSIS CELLS TECHNOLOGY
E1-P-TUE-P1-6	Mr. Hassan Javed ¹ , Mr Kai Herbrig ² , Mr Christian Walter ² , Mr Antonio Gianfranco Sabato ¹ , Prof. Milena Salvo ¹ , Mr. Federico Smeacetto ¹ 1Politecnico Di Torino, Turin, Italy, ² Sunfire, GmbH, Dresden, Germany
E1-P-TUE-P1-7	MODELLING THE EFFECT OF ADSORPTION AND ABSORPTION ON SURFACE SEGREGATION FOR BINARY ALLOYS IN HYDROGEN AND OTHER GAS ENVIRONMENTS
	<u>Dr. Amarante Bottger</u> ¹ , Dr. Meng Zhao ¹ 'Delft University of Technology, Netherlands
	SYNTHESIS OF MAGNESIUM HYDRIDE NANOPARTICLES ON CARBON MATERIALS FOR HYDROGEN STORAGE
E1-P-TUE-P1-8	<u>Dr Wei Liu</u> ¹ , Dr Eki Setijadi Setijadi ¹ , Dr Ruben Bartali ¹ , Dr Nadhira Laidani ¹ , Dr Luigi Crema ¹ , Prof. Kondo-Francois Aguey-Zonsou ² , Dr Giorgio Speranza ^{1,3,4}
	¹ Centre for Materials and Microsystems, Fondazione Bruno Kessler, Via Sommarive 18, 38123 Povo (TN), Italy, ² MERLin group, School of Chemical Engineering, The University of New South Wales, Sydney, NSW 2052, Australia, ³ Istituto Fotonica e Nanotecnologie – CNR, Via alla cascata 56, 38123 Trento, Italy, ⁴ Dep. Material Engineering, University of Trento, Via Mesiano 77, 38123 Trento, Italy

	TIME: 13:00-15:00 R00M: F0YER, E1/M1
P1	Tuesday, September 19, 2017
• •	Symposium E.2: Batteries and Supercapacitors
	NANOCOMPOSITE ELECTROLYTE MEMBRANE BASED ON SULFONATED GRAPHENE OXIDE FOR LITHIUM SULFUR CELLS
E2-P-TUE-P1-1	Dr. Isabella Nicotera ¹ , Dr. Cataldo Simari ¹ , Prof. Cesare Oliviero Rossi ¹ , Dr. Apostolos Enotiadis ² , Dr. Sergio Brutti ³
	¹ University of Calabria, Rende (CS), Italy, ² National Center for Scientific Research "Demokritos", Athens, Greece, ³ University of Basilicata, Potenza, Italy
	SYNTHESIS, STRUCTURAL CHARACTERIZATION AND COMPLEX CONDUCTIVITY STUDY OF LIVO3
E2-P-TUE-P1-2	MSc Gregory Alexandridis ¹ , Dr Charalampos Sarafidis ¹ , Dr Aristotelis Kazakopoulos ² , Dr Orestis Kalogirou ¹
	DI OLESTIS RATUGITOU: ¹Department Of Physics, Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece, ²Department of Electronic Engineering, Alexander Technological Educational Institute of Thessaloniki, Sindos, Greece, Sindos, Greece
	X-RAY ABSORPTION STUDIES OF ENERGY MATERIALS
E2-P-TUE-P1-3	Professor Alan Chadwick ¹ ¹ University Of Kent, Canterbury, United Kingdom
	INSIGHTS ABOUT THE SIDE REACTIVITY UPON CYCLING OF A LTO-LFP Li-ION BATTERY
E2-P-TUE-P1-4	<u>Dr. Sergio Brutti</u> ¹ , Dr. Jessica Manzi ¹ , Dr. Jiabril Gigli ² , Dr. Stefano Zilio ² , Dr. Alessandra Fernicola ² ¹ University Of Basilicata, Potenza, Italy, ² SAES Getters Spa, Lainate, Italia
50 D THE D4 5	A CARBON-COATED MIXED OLIVINE Li(Co1/3Fe1/3Mn1/3)P04 MATERIAL AS POSITIVE ELECTRODE IN LITHIUM CELLS
E2-P-TUE-P1-5	<u>Dr. Sergio Brutti</u> ¹ , Dr. Jessica Manzi ¹ , Dr. Isaac Capone ¹ 'University Of Basilicata, Potenza, Italy
	DEFECT CHEMISTRY AND MIGRATION PROCESSES IN DISORDERED OXIDES
E2-P-TUE-P1-6	MSc Apostolos Kordatos ¹ , Dr. Nikolaos Kelaidis ¹ , Dr. Stavros-Richard G. Christopoulos ¹ , Dr. David C. Parfitt ¹ , Dr. Alexander Chroneos ^{1,2}
	1 Faculty of Engineering, Environment and Computing, Coventry University, Coventry CV1 5FB, United Kingdom, 2 Department of Materials, Imperial College London, South Kensington Campus, London SW7 2AZ, United Kingdom
	COBALT HEXACYANOFERRATE AS CATHODE FOR SODIUM ION BATTERIES
E2-P-TUE-P1-7	Francesco Mazzali ¹ , Prof Serena Margadonna ¹ 'Materials Research Centre, Swansea University, Swansea, United Kingdom
	CARBON HETEROSTRUCTURES BASED ON GRAPHENE OXIDE FOR LITHIUM-SULFUR BATTERY APPLICATIONS
E2-P-TUE-P1-8	<u>Dr. Apostolos Enotiadis</u> ¹ , PhD student Lamprini Boutsika ¹ , Dr. Isabela Nicotera ² , PhD student Cataldo Simari ² , Dr. Sergio Brutti ³ , Dr. Kostantinos Spyrou ⁴ , PhD student Eleni Thomou ⁴ ,
	Dr. Georgia Charalambopoulou ¹ , Dr. Theodore Steriotis ¹
	1National Center for Scientific Research "Demokritos", Athens, Greece, ² Department of Chemistry and Chemical Tech., University of Calabria, Rende, Italy, ³ Department of Science, University of Basilicata, Potenza, ITALY, ⁴ Department of Materials Science & Engineering, University of Ioannina, Ioannina, Greece
	MOROCCAN DATE PITS DERIVED ACTIVATED CARBON AND THEIR PERFORMANCE EVALUATION AS ANODE MATERIAL FOR SODIUM-ION BATTERIES
FO D THE D1 O	<u>Dr Ilham El Aboudi</u> ¹, Ilyasse Izanzar², Ismail Saadoune², David Talaga³, Odile Babot³, Laurent Servant³
E2-P-TUE-P1-9	**University Cadi Ayyad, Laboratory of Condensed Matter and Nanostructures (LCMN), Faculty of Sciences and Technology Guèliz, BP 549, Av Abdelkarim Elkhattabi, Marrakech, Morocco, *University Cadi Ayyad, Laboratory of Chemistry and Environment (LCME), Faculty of Sciences and Technology, Guèliz, BP 549, Av Abdelkarim Elkhattabi, Marrakech, Morocco, *University of Bordeaux, Institute of Molecular Sciences, Group of Molecular Spectroscopy, UMR5255, BP 351, Cours de la Libération, Talence, France
	HYBRID ULTRACAPACITOR-BATTERY ENERGY STORAGE SYSTEM WITH GRAPHENE/CLAY COMPOSITE
E2-P-TUE-P1-10	Wisly Truong¹¹¹Labex-sigmalim / Spcts Cec, Limoges, FRANCE
	NEW AROMATIC POLYMER ELECTROLYTES FOR APPLICATION IN LITHIUM METAL BATTERIES
	Michele Braglia ^{1,2} , Dr. Vincent Morizur ³ , Dr. Sandra Olivero ³ , Dr. Jean-Roger Desmurs ⁴ ,
E2-P-TUE-P1-11	<u>Dr. Philippe Knauth</u> ^{1,2} , Dr. Elisabet Dunach ³
	¹ Aix Marseille Univ, CNRS, Madirel, Marseille, France, ² International Associated Laboratory LIME, Marseille and Rome, France and Italy, ³ Institut de Chimie de Nice, Univ Nice Sophia Antipolis, CNRS, Nice, France, 4CDP Innovation, Lyon, France

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
P1	Tuesday, September 19, 2017
-	Symposium E.2: Batteries and Supercapacitors
	THERMODYNAMICS OF LIQUID LI-SB ALLOYS, EXPERIMENT VS MODELING
E2-P-TUE-P1-12	Sylwia Terlicka ¹ , Marcela E. Trybula ^{1,2} , Przemyslaw Fima ¹ 'Institute of Metallurgy and Materials Science, Polish Academy of Sciences, Krakow, Poland, 2Department of Materials Science and Engineering, KTH Royal Institute of Technology, Stockholm, Sweden
E2-P-TUE-P1-13	ELECTROCHEMICAL IMPEDANCE STUDY ON ESTIMATING THE CAPACITY OF THE ELECTRIC DOUBLE LAYER SUPERCAPACITORS
EZ-F-10E-F1-13	<u>Dr. Evgeny Kharanzhevskiy</u> ¹ , Tatiana Pisareva ¹ , Francisco Carrasco-Marín ² 'Udmurt State University, , Russian Federation, 22University of Granada 18071 Spain Granada Fuente Nueva
	ELECTROMOTIVE FORCE MEASUREMENTS IN THE Ag-Li-Sb SYSTEM
E2-P-TUE-P1-14	Msc Monika Bugajska¹, PhD Przemysław Fima¹¹Institute Of Metallurgy and Materials Science. Polish Academy of Sciences, Cracow, Poland
E2-P-TUE-P1-15	NEW INTERMETALLIC ANODE MATERIALS FOR LITHIUM ION BATTERIES: EXPERIMENTAL INVESTIGATION OF THE Li-Sb-Sn System
EZ-F-10E-F1-13	Msc Patric Berger ¹ , Univ.Prof. Dr. Hans Flandorfer ¹ 'University of Vienna, Department of Inorganic Chemistry - Functional Materials, Vienna, Austria
	IMPROVED TRANSPARENT CONDUCTORS BY SPUTTERING OF ITO ON POLYMERIC SUBSTRATES FOR ELETTRO-OPTICAL DEVICE
E2-P-TUE-P1-16	Ph.dr Marco Castriota ¹ , Dr.Ssa Alessia Marino ² , Ph.Dr. Angela Fasanella ¹ , Ph.Dr. Emanuela Bruno ² , Ph.Dr. Maria P. De Santo ¹ , Prof. Carlo Versace ¹ , Ph.Dr. Giovanni De Filpo ³ , Prof. Enzo Cazzanelli ¹ ¹ Physics Department-University of Calabria, Via P. Bucci Cubo 31C Rende, Italy, ² Notredame s.r.l., c/o Dipartimento di Fisica, Università della Calabria, RENDE 87036, ITALY, ³ Dipartimento di Chimica e Tecnologie Chimiche, Università della Calabria, Ponte P. Bucci, RENDE 87036, ITALY
	INTERDIGITATED FLEXIBLE LI-ION BATTERY BY AEROSOL JET PRINTING
E2-P-TUE-P1-17	<u>Dr Yohann Thomas</u> ¹ , Sébastien Solan ¹ 'Cea, Grenoble, France
	AMORPHOUS LICUPO4 THIN FILMS AS A CATHODE MATERIAL FOR LI-Ion BATTERIES
E2-P-TUE-P1-18	Visensia Ade Sugiawati ¹ , Florence Vacandio ¹ , Philippe Knauth1, <u>Thierry Djenizian²</u> ¹ Aix-Marseille University, Marseille, France, ² Ecole Nationale Supérieure Des Mines de Saint-Etienne, Gardanne, France
	ON THE EFFECT OF THE CARBON CONTENT IN THE DISCHARGE CAPACITY OF IRON ELECTRODES FOR IRON-AIR BATTERIES
E2-P-TUE-P1-19	Dr. Cinthia Alegre ¹ , Horacio A. Figueredo-Rodriguez ² , Dr Rachel D. McKerracher ² , Dr Carlos Ponce de León ² , Dr Antonino S. Aricò ¹ , <u>Dr Vincenzo Baglio¹</u> 'Istituto di Tecnologie Avanzate per l'Energia "Nicola Giordano" (CNR-ITAE), 98126 Messina (Italy) ² Electrochemical Engineering Laboratory, Engineering Sciences, University of Southampton, Highfield, Southampton, S017 1BJ, UK
	PFG-NMR STUDY OF ION TRANSPORT PROPERTIES IN SINGLE LITHIUM-ION CONDUCTING SOLID POLYMER ELECTROLYTES BASED ON NAFION
E2-P-TUE-P1-20	Isabella Nicotera ¹ , Cataldo Simari ¹ , Cesare Oliviero Rossi ¹ , Luigi Coppola ¹ , Giuseppe Antonio Ranieri ¹ 'University Of Calabria, Rende (CS), Italy
	SULFIDE-BASED SOLID ELECTROLYTES FOR ADVANCED ALL-SOLID-STATE LITHIUM CELL CONFIGURATIONS
E2-P-TUE-P1-21	Giovanna Maresca¹, Dr Akiko Tsurumaki¹, Dr Seitaro Ito², Professor Stefania Panero¹, Dr Yuichi Aihara², Dr Maria Assunta Navarra¹ ¹Sapienza University Of Rome, Rome, Italy, 2Samsung R&D Institute Japan, Osaka, Japan
	EFFECT OF THE INTERSLAB DISTANCE ON THE PERFORMANCE OF Ni-Co LAYERED DOUBLE HYDROXIDES AS ENERGY STORAGE ELECTRODE MATERIALS
E2-P-TUE-P1-22	Mr. Alberto Adán-Más ^{1,2} , Ms. Celine Tang ¹ , Prof. Fátima Montemor ² , Prof. Liliane Guerlou-Demourgues ¹ 'ICMCB, Université De Bordeaux, Bordeaux INP, Bordeaux, France, 2Centro Química Estrutural, DEQ, Instituto Superior Técnico, Universidade de Lisboa, Lisboa, Portugal
	EFFECTS OF TITANIUM DIOXIDE THIN FILMS IN ASYMMETRICAL ELECTROCHROMIC DEVICES
E2-P-TUE-P1-23	Ph.dr Marco Castriota ¹ , Ph.Dr. Maria P. De Santo ¹ , Ph.Dr. Angela Fasanella ¹ , Prof. Enzo Cazzanelli ^{1,2} , Prof. Riccarco C. Barberi ¹
	¹ Physics Department-University of Calabria , Via P. Bucci Cubo 31C Rende, Italy, 2Notredame Srl, C/O Dipartimento di Fisica -Università della Calabria via P. Bucci Cubo 33B Rende, Italy

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
DI	Tuesday, September 19, 2017
-	Symposium E.2: Batteries and Supercapacitors
E2-P-TUE-P1-24	ULTRAFAST IONIC LIQUID-ASSISTED MICROWAVE SYNTHESIS OF SnO MICROFLOWERS AND THEIR SUPERIOR SODIUM STORAGE PERFORMANCE
	Bingsheng Qin ^{1,2} , Doctor Alberto Varzi ^{1,2} , Huang Zhang ^{1,2} , Doctor Thomas Diemant ³ , Doctor Dorin Geiger ³ , Rinaldo Raccichini ¹ , Professor Jürgen Behm ³ , Professor Ute Kaiser ³ , Professor Stefano Passerini ^{1,2}
	¹ Helmholtz Institute Ulm, Ulm, Germany, ² Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany, ³ University of Ulm, Ulm, Germany
E2-P-TUE-P1-25	MgCo204 SYNTHESIZED VIA ELECTRODEPOSITION METHOD AND ITS SUPERCAPACITOR PERFORMANCE
	Mr Abdulhamit Aydin ¹ , Prof Dr. Rudolf Holze 'AG Elektrochemnie, Institute of Chemistry, Chemnitz University of Technology, Chemnitz, Germany
E2-P-TUE-P1-26	POROUS MnCo204 AS SUPERIOR ANODE MATERIAL THAN NANOPARTICLES MnCo204 FOR RECHARGEABLE LITHIUM ION BATTERIES
	Dr. Alok Kumar Rai¹ ¹Amity University, Noida, New Delhi, India, Noida, India
E2-P-TUE-P1-27	MICRON-SIZED BI-Sb-TE TERNARY ALLOY AS HIGH CAPACITY ANODE MATERIAL FOR SODIUM-ION BATTERIES
	Marcin Orzech ¹ , Professor Serena Margadonna ¹ ¹ College of Engineering, Swansea University, Swansea, United Kingdom

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
P1	Tuesday, September 19, 2017
r i	Symposium E.3: Materials for Energy harvesting
	SPECTRO-ELLIPSOMETRIC STUDY OF NON-HYDROGENATED AMORPHOUS SILICON THIN FILMS FOR LOW-COST PHOTOVOLTAIC APPLICATIONS
E3-P-TUE-P1-1	<u>Sr Elías Saugar</u> ¹ , Dr Susana María Fernández ¹ , Dr José Javier Gandía ¹ , Dr Emilio Márquez ² , Dr Eduardo Blanco ²
	¹ Energy Department, CIEMAT, Madrid, Spain, 2Condensed Matter Physic Department, Universidad de Cádiz, Cádiz, Spain
E3-P-TUE-P1-2	ELECTRONIC AND GAP PROPERTIES OF LEAD-FREE PERFECT AND MIXED HYBRID HALIDE PEROVSKITES: AN AB-INITIO STUDY
E3-P-10E-P1-2	Athanasios Koliogiorgos ¹ , Prof. Dr Sotirios Baskoutas ¹ , <u>Prof. Dr. Iosif Galanakis</u> ¹ 'Department of Materials Science, University Of Patras, Patras, Greece
	ELECTRICAL AND OPTICAL PROPERTIES OF Cu(In,Ga)Se2 THIN FILMS GROWN BY PULSED LASER DEPOSITION
E3-P-TUE-P1-3	Mrs. Christiana Nicolaou ¹ , Mrs. A. Zacharia ² , Dr. G. Itskos ² , Dr. J. Giapintzakis ¹
	¹ University Of Cyprus, Department Of Mechanical And Manufacturing Engineering, Nicosia, Cyprus, ² Experimental Condensed Matter Physics Lab, Department of Physics, University of Cyprus, Nicosia, Cyprus
	ZT ENCHANTMENT IN HOT-DEFORMED P-TYPE BI0.5SB1.5TE3 BULK ALLOYS
E3-P-TUE-P1-4	<u>Dr Elli Symeou</u> ¹ , Ms Ioanna Ioannou ¹ , Mrs Christiana Nicolaou ¹ , Dr Theodora Kyratsi ¹ , Dr Ioannis Giapintzakis ¹ 'University Of Cyprus, Nicosia, Cyprus
E3-P-TUE-P1-5	Sn,Zn OXIDE BASED THIN FILMS DEPOSITED BY MOCVD USING AN HETERONUCLEAR PRECURSOR FOR PHYSICAL APPLICATIONS
	Dr. Nathalie Prud'homme ¹ , Dr. Corinne Legros ¹ , Patrick Ribot ¹ , Dr. Diana Dragoe ¹ , Dr. David Berardan ¹ , Dr. Michel Andrieux ¹ , Dr. Hiroaki Uchiyama ² , Dr. Vadim G. Kessler ² , Dr. Gulaim A. Seisenbaeva ² "Université Paris Sud 11 (ICMMO/SP2M) UMR 8182, 91405 Orsay Cedx, France, Department of Chemistry, SLU, Box 7015, 75007 Uppsala, Sweden
	STRUCTURAL TRENDS IN CHALCOPYRITE BASED INTERMEDIATE BAND ABSORBER MATERIALS
E3-P-TUE-P1-6	Julien Marquardt ^{1,2} , Prof. Dr. Christiane Stephan ^{2,3} , Prof. Dr. Susan Schorr ^{1,2}
	¹Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin, Germany, ²Freie Universität Berlin, Berlin, Germany, ³Bundesanstalt für Materialforschung und -prüfung, Berlin, Germany

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
PI	Tuesday, September 19, 2017
	Symposium E.3: Batteries and Supercapacitors
	SOLID-STATE PHOTOELECTROCHEMICAL CELL WITH TANTALUM NITRIDE/OXYNITRIDE NANOTUBES AS THE PHOTOANODE
E3-P-TUE-P1-7	Mr. Kaiqi Xu¹, Dr. Athanasios Chatzitakis¹, Dr. Tor Bjørheim¹, Dr. Truls Norby¹, Dr. Juan Yang², Dr. Sen Mei², Dr. Mathieu Grandcolas², Dr. Christian Simon² ¹University of Oslo, Centre for Materials Science and Nanotechnology, Oslo, Norway, ²SINTEF Materials and Chemistry, Department of Materials and Nanotechnology, Oslo, Norway
	STABILITY OF SILICON SOLAR CELLS: A COMPARISON BETWEEN MONOCRYSTALLINE AND AMORPHOUS SILICON UNDER HIGH AND LOW IRRADIATION
E3-P-TUE-P1-8	Dr. Ana Milena Cruz Rodríguez ¹ , MSc Pau Boch-Jiménez ¹ , <u>Dr. Mónica Bratriz Della Pirriera</u> ¹ , Dr. Carolina Carbó ¹ , Rubén Roldán ² 'Leitat Technological Center, Terrassa, Spain, 2EMPA Materials Science and Technology, Dübendorf, Switzerland
	STRUCTURAL ANALYSIS OF HYBRID PEROVSKITE CH3NH3Pbi3-xBrx SOLID SOLUTION
E3-P-TUE-P1-9	<u>Frederike Lehmann</u> ¹ , Dr. Alexandra Franz ¹ , Dr. Daniel M. Többens ¹ , Prof. Dr. Susan Schorr ^{1,3} ¹ Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin, Germany, ² Universität Potsdam, Potsdam, Germany, ³ Freie Universität Berlin, Berlin, Germany
50 D THE D4 40	OPTICAL AND COMPOSITIONAL INVESTIGATIONS OF IN-SITU SPUTTER DEPOSITED INDIUM SULPHIDE BUFFER LAYERS ON Cu(IN,GA)Se2 SOLAR CELLS
E3-P-TUE-P1-10	<u>Dr. Oana Cojocaru-Miredin</u> ¹ , M. Sc. Purvesh Soni ¹ , Dr. Birger Birghoff ² , Prof. Joachim Knoch ² ¹ Rwth Aachen University, Aachen, Germany, ² Institut für Halbleitertechnik, rwth Aachen University, Aachen, Germany
	SYNTHESIS, CHARACTERISATION AND OPTOELECTRONIC PROPERTIES OF THE HYBRID (CH ₃) ₃ SSnI ₃ PEROVSKITE
E3-P-TUE-P1-11	<u>Dr. Andreas Kaltzoglou</u> ¹ , Dr. Georgios Manolis ¹ , Dr. Kyriakos Papadopoulos ¹ , Dr. Athanassios Kontos ¹ , Dr. Polycarpos Falaras ¹ *National Center for Scientific Research "DEMOKRITOS", Athens, Greece
	RAMAN SPECTROSCOPY AND ELECTRICAL PROPERTIES OF EARTH-ABUNDANT Zn3As2 FOR OPTOELECTRONIC DEVICES
E3-P-TUE-P1-12	Mrs Andreana Daniil ¹ , Mr Martin Friedl ¹ , Mr Tim Burgess ² , Professor H. Hoe Tan ² , Professor Chennupati Jagadish ² , Dr Philippe Caroff ² , Professor Anna Fontcuberta i Morral ¹ 'École Polytechnique Féderale de Lausanne, Lausanne, Switzerland, 'The Australian National University, Canberra, Australia
	BINARY AND TERNARY TRANSITION METAL SILICIDES FOR HIGH-TEMPERATURE THERMOELECTRIC APPLICATIONS
E3-P-TUE-P1-13	Mr Dimitrios Stathokostopoulos¹, Mrs Evangelia Tarani¹, Mrs Aikaterini Teknetzi¹, Dr Dimitrios Chaliampalias¹, Dr Sofia-Alexandra Tsipas², Prof Efstathios Polychroniadis¹, Associate Professor Eleni Pavlidou¹, Prof. Konstantinos Chrissafis¹, Assoc. Prof. Euripides Hatzikraniotis¹, Prof. Konstantinos Paraskevopoulos¹, Assoc. Prof. George Vourlias¹ ¹Physics Department, Aristotle University of Thessaloniki, Thessaloniki, Greece, ²Departamento de Ciencia e Ingeniería de Materiales e Ingeniería Química, IAAB, Universidad Carlos III de Madrid, Madrid, Spain
	LOW TEMPERATURE SYNTHESIS AS A ROUTE FOR HIGHLY THERMOELECTRIC EFFICIENT Na-DOPED PbTe
E3-P-TUE-P1-14	<u>Dr Crysi Papageorgiou</u> ¹ , Dr Andreas Delimitis ² , Dr. Ioannis Giapintzakis, Dr Elli Symeou ¹ , Dr Theodora Kyratsi ¹
	¹ Department of Mechanical and Manufacturing Engineering, University of Cyprus, 1678, Nicosia, Cyprus, ² Chemical Process & Energy Resources Institute (CPERI), Centre for Research and Technology Hellas (CERTH), 57001 Thermi, Thessaloniki, Greece
E3-P-TUE-P1-15	EFFECT OF SINTERING CONDITIONS ON Mg2Si-BASED THERMOELECTRIC MATERIALS
201 1021110	Mr George Mesaritis ^{1,2,3} ¹Dr.Elli Symeou, Nicosia, Cyprus, ²Dr.Nicolaos Vlachos, Nicosia, Cyprus, ³Dr.Theodora Kyratsi, Nicosia, Cyprus
	REFLECTION SPECTRA OF THE Bi1-xGdxFe03, Bi1-xNdxFe03 AND Bi1-x-yGdxLayFe03 SUBSTITUTED PEROVSKITES
E3-P-TUE-P1-16	Prof. Dr. Susan Schorr ^{1,2} , Dr. Barys Korzun ^{3,4} , Dr. V. Sobol ⁴ , Dr. O. Mazurenko ⁵ , Dr. T. Bizhigitov ⁶ , Dr. S. Tomaev ⁶
	¹Helmholtz-Zentrum Berlin For Materials And Energy, Berlin, Germany, ²Freie Universitaet Berlin, Berlin, Germany, ³The City University of New York, New York, US, ⁴Belarus State Pedagogical University, Minsk, Belarus, ⁵Belarusian Republican Foundation for Fundamental Research, Minsk, Belarus, °Taraz State Pedagogical Institute, Taraz, Kazakhstan

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
DI	Tuesday, September 19, 2017
P1 -	Symposium E.3: Batteries and Supercapacitors
	SYNTHETIC MANIPULATION OF HYBRID N-TYPE THERMOELECTRIC MATERIALS
E3-P-TUE-P1-17	Dr. Katherine Ann Mazzio ^{1,2} , Marc Lindorf ³ , Prof. Dr. Manfred Albrecht ³ , Prof. Dr. Simone Raoux ^{1,2,4} ¹ Institut für Nanospektroskopie, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Berlin, Germany, ² Energy Materials In-Situ Laboratory, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Berlin, Germany, ³ Institut für Physik, Universität Augsburg, Augsburg, Germany, ⁴ Institut für Physik, Humboldt Universität zu Berlin, Berlin, Germany
	MICROSTRUCTURE STUDY ON LEAD CHALCOGENIDES THERMOELECTRIC MATERIALS
E3-P-TUE-P1-18	E.C Stefanaki ¹ , E. Hatzikraniotis ¹ , M.G Kanatzidis ² , Th. Kyratsi ³ , P.M Nikolic ⁴ , K.M Paraskevopoulos ¹ 'Solid State Physics Section, Physics Department, Aristotle University of Thessaloniki, , Greece, ² Department of Chemistry, Northwestern University, Evaston, IL, United States, ³ Department of Mechanical & Manufacturing Engineering, University of Cyprus, 1678 Nicosia, Cyprus, ⁴ Institute of Technical Sciences of SASA, Knez Mihailova 35, 11000 Beograd, Serbia
	STRUCTURAL CHARACTERIZATION OF NANOCRYSTALLINE SI THIN FILMS, FOR SOLAR CELL APPLICATIONS, BY ELECTRON MICROSCOPY TECHNIQUES
E3-P-TUE-P1-19	Mr Stavros Kozakos¹, Mr Nikolaos Vouroutzis¹, Mr Christos Lioutas¹, Mrs Violetta Gianneta², Mrs Androula Nassiopoulou² ¹Department of Physics, Aristotte University of Thessaloniki, GR-54124 Thessaloniki, Greece, ²NCSR Demokritos/INN, Terma Patriarchou Grigoriou, Aghia Paraskevi, 15310 Athens, Greece
	A HIGH RESOLUTION ELECTRON MICROSCOPY AND SPECTROSCOPY STUDY OF INTERFACES IN Si-BASED SOLAR CELL HETEROJUNCTIONS
E3-P-TUE-P1-20	Dr Despoina Maria Kepaptsoglou ^{1,4} , <u>Dr Spyros Diplas</u> ^{2,3} , Professor Quentin Ramasse ^{4,5} , Associate Professor Anette Eleonora Gunnæs¹, Dr Alexander Ulyashin² ¹Physics Department/Center for Materials Science and Nanotechnology, University of Oslo, OSLO, Norway, ²SINTEF Materials and Chemistry, OSLO, Norway, ³Department of Chemistry/Centre for Materials Science and Nanotechnology, University of Oslo, OSLO, Norway, ³SupersTEM, Daresbury, United Kingdom, ³National Centre for Electron Microscopy, Lawrence Berkeley National Laboratory, Berkeley, United States of America
	A TEM AND XPS STUDY OF EPITAXIALLY GROWN AMORPHOUS HYDROGENATED SILICON IN SOLAR CELL STRUCTURES
E3-P-TUE-P1-21	<u>Dr Spyros Diplas</u> ^{1,3} , Associate Professor Anette Eleonora Gunnæs², Dr Alexander Ulyashin¹ 'SINTEF MK, OSLO, Norway, ¹Department of Physics/Centre for Materials Science and Nanotechnology, University of Oslo, OSLO, Norway, ³Department of Chemistry/Centre for Materials Science and Nanotechnology, University of Oslo, OSLO, Norway
	ON THE EVOLUTION OF PROPERTIES OF ITO LAYERS DEPOSITED ON CRYSTALLINE AND AMORPHOUS SI UPON HEAT TREATMENT
E3-P-TUE-P1-22	Dr Despoina Maria Kepaptsoglou ^{1,4} , Dr Spyros Diplas ^{2,3} , Associate Professor Anette Eleonora Gunnæs ¹ , <u>Dr Alexander Ulyashin²</u> ¹ Department of Physics/Centre for Materials Science and Nanotechnology, University of Oslo, Oslo, Norway, ² SINTEF Materials and Chemistry, Oslo, Norway, ³ Department of Chemistry/Centre for Materials Science and Nanotechnology, University of Oslo, Oslo, Norway, ⁴ SuperSTEM, Daresbury, United Kingdom
	3D COUNTER ELECTRODES FOR DYE SENSITIZED SOLAR CELLS WITH IMPROVED PERFORMANCE
E3-P-TUE-P1-23	Post-doc Researcher George Syrrokostas ¹ , Phd candidate Aikaterini Govatsi ¹ , Associate Professor George Leftheriotis ² , Dr. Spyros Yannopoulos ¹ *FORTH/ICEHT, Patra, Greece, 2Physics Department, University of Patras, Patra, Greece
	EFFECTS OF Sr/La AND Ta/La co-DOPING ON THE DIELECTRIC PROPERTIES OF CaCu3Ti4012
E3-P-TUE-P1-24	<u>Dr. Eng. Rodrigo Espinoza</u> ¹ , Sorach Vidal ¹ ¹ Materials Science Department, FCFM, Universidad De Chile, Santiago, Chile
	CORROSION IN SOLAR THERMAL SYSTEMS: MATERIAL SELECTION AND PROTECTION
E3-P-TUE-P1-25	<u>Dr. Ali Soleimani-Dorcheh</u> ¹ , Dr. Mathias Galetz ¹ ¹DECHEMA-Forschungsinstitut, Frankfurt Am Main, Germany
FO D THE DA CA	POROUS, REDOX OXIDE-BASED, CERAMIC STRUCTURES FOR EFFICIENT SOLAR ENERGY HARVESTING, TRANSFORMATION AND STORAGE
E3-P-TUE-P1-26	<u>Christos Agrafiotis</u> ¹ , Martin Roeb ¹ , Christian Sattler ¹ ¹ Deutsches Zentrum für Luft- und Raumfahrt/German Aerospace Center - DLR, Linder Höhe, 51147, Köln, Germany

	TIME: 13:00-15:00 R00M: F0YER, E1/M1
P1	Tuesday, September 19, 2017
PI —	Symposium F.1: Biomaterials for Tissue Engineering
	TOUGHENING OF POROUS CALCIUM PHOSPHATE SCAFFOLDS BY POLY(ε-CAPROLACTONE) COATINGS
F1-P-TUE-P1-1	Dr. Sergey Dorozhkin¹ ¹N/A, Moscow, Russia
	MECHANICAL PROPERTIES OF DENTAL COMPOSITES MODIFIED HYDROXYAPATITE
F1-P-TUE-P1-2	Zofia Kula ¹ , Hieronim Szymanowski ² 'Institute of Materials Science and Engineering, Łódź of University of Technology, ul. Stefanowskiego 1/15, 90-924 Łódź, Poland, Łódź, Poland, ² Institute of Materials Science and Engineering, Łódź of University of Technology, ul. Stefanowskiego 1/15, 90-924 Łódź, Poland, Łódź, Poland
	ANIONIC SURFACTANT TEMPLATING SYNTHESIS OF MESOSTRUCTURED HYBRID HYDROXYAPATITE
F1-P-TUE-P1-3	José Miguel Blanco-Becares ¹ , Dr. Antonio J. Salinas ^{1,2} , Laura Casarrubios ³ , Daniel Fernández-Villa ³ , Dr. María José Feito ³ , Prof. María Teresa Portolés ³ , Dr. Blanca González ^{1,2} , Prof. María Vallet-Regí ^{1,2} 1 Facultad de Farmacia, Universidad Complutense De Madrid, Madrid, Spain, Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Madrid, Spain, Facultad de Ciencias Químicas, Universidad Complutense de Madrid, Madrid, Spain
	EFFECT OF HALLOYSITE NANOTUBE FUNCTIONALIZATION ON THERMAL AND MECHANICAL PROPERTIES OF POLY(∈-CAPROLACTONE)
F1-P-TUE-P1-4	Ms Zoi Terzopoulou¹, Dr Dimitrios Bikiaris¹ ¹Laboratory of Polymer Chemistry and Technology, Department of Chemistry, Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece
	MESOPOROUS HYDROXYAPATITE AND MESOPOROUS BIOACTIVE GLASSES, A NEW STRATEGY TO MIMIC THE INORGANIC COMPONENT OF BONE
F1-P-TUE-P1-5	Giulia Molino ¹ , Sonia Fiorilli ¹ , Chiara Vitale-Brovarone ¹ ¹ Politecnico di Torino - Department of Applied Science and Technology, Turin, Italy
	TINB ALLOYS COVERED WITH Batio3 Layer enhanced cell proliferation and improved the vinculin and B1-integrin production
F1-P-TUE-P1-6	M.Sc., Ph.D. Martin Plencner ¹ , M.Sc., Ph.D. Marta Vandrovcova ¹ , M.Sc., Ph.D. Premysl Vanek ² , M.Sc. Zdenek Tolde ³ , Assoc. Prof. Vladimir Stary ³ , Assoc. Prof. Lucie Bacakova ¹ **Institute Of Physiology, The Czech Academy Of Sciences, Prague, Czech Republic, **Institute of Physics of the Czech Academy of Sciences, Prague, Czech Republic, **Institute of Materials Engineering, Faculty of Mechanical Engineering, Prague, Czech Republic
	DESIGN AND CHARACTERISATION OF BIOMIMETIC SMART SCAFFOLDS FOR BONE APPLICATIONS
F1-P-TUE-P1-7	Ms Giorgia Montalbano¹, Ms Giulia Molino¹, Ms Giorgia Novajra¹, Sonia Fiorilli¹, Giovanni Vozzi²,³, Carmelo De Maria²,³, Daniele Pasciuto¹, Gabriela Ciapetti⁴, Chiara Vitale-Brovarone¹¹¹Politecnico Di Torino - Department of Applied Science and Technology, Turin, Italy, ²University of Pisa - Dipartimento di Ingegneria dell'Informazione, Pisa, Italy, ³Research Center "E. Piaggio" - University of Pisa, Pisa, Italy, 4Istituto Ortopedico Rizzoli - Laboratorio di Fisiopatologia Ortopedica e Medicina Rigenerativa, Bologna, Italy
	MODIFICATION OF THE ULTRA-FINE GRAINED TITANIUM SURFACE BY CHEMICAL ETCHING AND ATOMIC LAYER DEPOSITION (ALD) TO PRODUCE BIOACTIVE COATING
F1-P-TUE-P1-8	<u>Denis Nazarov</u> ¹, Elena Zemtsova¹, Alexandr Solokhin¹, Vladimir Smirnov¹, Ruslan Valiev¹ 'Saint Petersburg State University, Saint-Petersburg, Russian Federation
	CONTROLLING THE DEGRADATION RATE OF MAGNESIUM FOAMS OBTAINED BY POWDER METALLURGY METHODS
F1-P-TUE-P1-9	Dr. Sandra C. Cifuentes ¹ , Mr. Luis Arias ^{1,2} , Dr. Elena Gordo ¹ , <u>Dr. Sophia A. Tsipas</u> ¹ ¹ Universidad Carlos III de Madrid, IAAB, Escuela Politécnica Superior, Leganes 28911, Spain, 2Tecnológico de Coasta Rica, Escuela de Ciencia e Ingeniería en Materiales, Cartago, Costa Rica
	NANOCOMPOSITE BIOACTIVE SCAFFOLDS WITH MULTIPLE DELIVERY CAPABILITIES FOR BONE TISSUE REGENERATION
F1-P-TUE-P1-10	Gregorio Guerrero ¹ , Dr Juan Pablo Cattalini ¹ , Kai Zheng ² , Prof. <u>Aldo R. Boccaccini²</u> , Prof. Dr. Viviana Mouriño ^{1,3} 1 Universidad de Buenos Aires, Argentina, 2 University of Erlangen-Nuremberg, , Germany, 3 CONICET, , Argentina
	GLASSES IN THE Na20 (K20)-Ca0-Mg0-Si02-P205-CaF2 SYSTEM AND THEIR DEVITRIFICATION BEHAVIOR
F1-P-TUE-P1-11	PhD Student Konstantinos Dimitriadis ¹ , Professor Michael Karakassides ¹ , Professor Dilshat Tulyaganov ² , <u>Associate Professor Simeon Agathopoulos¹</u> 'Materials Science and Engineering Department, University of Ioannina, Greece, ² Turin Polytechnic University of Tashkent, Uzbekistan

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1	
DI	Tuesday, September 19, 2017	
F1	Symposium F.1: Biomaterials for Tissue Engineering	
	DUAL SYRINGE ELECTROSPINNING-ELECTROSPRAYING SYSTEM FOR CARDIOVASCULAR STENTS	
F1-P-TUE-P1-12	Ms Veroniki Bakola ¹ , Ms. Varvara Karagkiozaki ^{1,2} , Ms. Fotini Pappa ^{1,2} , Ms. Aikaterini-Rafailia Tsiapla ¹ , Ms. Eleni Pavlidou ³ , Ms. Theodora Choli-Papadopoulou ⁴ , Mr. Ioannis Moutsios ¹ , Mr. Stergios Logothetidis ¹ ¹ Nanomedicine Group, Lab for "Thin Films- Nanomaterials, Nanosystems & Nanometrology", Department of Physics, Aristotle University of Thessaloniki, Greece, Thessalonik	
	FABRICATION OF THREE-DIMENSIONAL BIODEGRADABLE CELLULOSE ACETATE SCAFFOLDS LOADED WITH DEXAMETHASONE DRUG FOR BONE IMPLANTS	
F1-P-TUE-P1-13	Mrs. Aikaterini-Rafailia Tsiapla¹, Mrs. Varvara Karagkiozaki¹,², Mrs. Fotini Pappa¹,², Mrs. Veroniki Bakola¹, Mrs. Eleni Pavlidou³, Mrs. Theodora Choli-Papadopoulou⁴, Mrs. Panagiwta Gkertsiou¹, Mr. Stergios Logothetidis¹¹Lab for "Thin Films- Nanosystems & Nanometrology", Nanomedicine Group, Department of Physics, Aristotle University of Thessaloniki, Greece, ¹BL Nanobiomed P.C. Thessaloniki, Greece, Thessaloniki, Greece, ³Department of Physics, Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece, ¹Department of Chemistry, Aristotle University of Thessaloniki, Greece, Thess	
	EFFECT OF BITING PATTERNS ON STEM CELL DIFFERENTIATION AND PROLIFERATION IN THE CERVICAL LOOP OF THE INCISOR IN MICE	
F1-P-TUE-P1-14	<u>Alexander Tsouknidas</u> ¹ , Lucia Jimenez-Rojo ² , Nikolaos Michailidis ¹ , Thimios Mitsiadis ²	
	¹ Physical Metallurgy Laboratory, Department of Mechanical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece, ² Institute of Oral Biology, University of Zurich, Plattenstrasse 11, CH-8032, , Switzerland	
	EXTRACTION OF KERATIN FROM SUSTAINABLE CHICKEN FEATHER COMPONENTS	
F1-P-TUE-P1-15	Phd Candidate Firoozeh Pourjavaheri ¹ , Associate Professor Oliver A.H. Jones ¹ , Adjunct Associate Professor Frank Sherkat ¹ , Associate Professor Arun Gupta ² , Prof. Emeritus Dr Robert A. Shanks ¹ ¹ Rmit University, Melbourne, Australia, ² Universiti Malaysia Pahang, Kuantan, Malaysia	
	DEALLOYING-BASED NANOCOMPOSITES: TOWARDS A NEW GENERATION OF IMPLANT BIOMATERIALS	
F1-P-TUE-P1-16	<u>Dr. Ilya Okulov</u> ^{1,2} , Mr. Artem Okulov ^{1,3} , Assoc. Prof. Takeshi Wada ² , Prof. Hidemi Kato ² , Prof. Jörg Weissmüller ^{1,4} , Dr. Jürgen Markmann ^{1,4} *Institute of Materials Research, Materials Mechanics, Helmholtz-Zentrum Geesthacht, Geesthacht, Germany, *Institute for Materials Research, Tohoku University, Katahira 2-1-1, Sendai 980-8577, Japan, *Institute of Metal Physics, Ural Division of the Russian Academy of Sciences, Ekaterinburg, Russian Federation, *Institute of Materials Physics and Technology, Hamburg University of Technology, Hamburg, Germany	
	CARDIAC PROGENITOR CELLS RESPONSE TO BLOW-SPUN SCAFFOLD MODIFIED BY POLYELECTROLYTE MULTILAYER FILMS	
F1-P-TUE-P1-17	Phd Aldona Mzyk¹, MSc Michał Wojasiński², PhD Piotr Natkański³	
	¹ Institute of Metallurgy And Materials Science Pas, Krakow, Poland, ² of Biotechnology and Bioprocess Engineering, Faculty of Chemical and Process Engineering, Warsaw University of Technology, Warsaw, Poland, ³ Faculty of Chemistry, Jagiellonian University, Krakow, Poland	

	IIME: 13:00-15:00 ROUM: FUYER, EI/MI
P1	Tuesday, September 19, 2017
	Symposium F.4: The Next Generation of Implants with Multi-functional Properties: Advanced Synthesis, Processing and Surface Modification Methods for Biomaterials
F4-P-TUE-P1-1	NEAR-SURFACE MICROSTRUCTURAL AND MICRO-MECHANICAL PROPERTIES CHANGES OCCURRED IN A BIOCOMPATIBLE TI-Nb-Zr-Fe-O GUM-TYPE ALLOY BY SMAT (SURFACE MECHANICAL ATTRITION TREATMENT) PROCESSING
	Dr. Doina Raducanu ¹ , Dr. Vasile Danut Cojocaru ¹ , Dr. Anna Nocivin ² , Dr. Mariana Lucia Angelescu ¹ , Eng. Ioan Dan ³ , Eng. Elisabeta Mirela Cojocaru ¹ , Dr. Ion Cinca ¹ "University Politehnica of Bucharest, Bucharest, Romania, ² OVIDIUS University of Constanta, Constanta, Romania, ³ SC R&D Cosnultanta si Servicii SRL, Bucharest, Romania
F4-P-TUE-P1-2	MEDICAL IMPLANTS FROM NANOSTRUCTURED TI WITH ENHANCED BIOACTIVE PROPERTIES
	<u>Dr Elena Zemtsova</u> ¹ , PhD Denis Nazarov ¹ , Prof. Ruslan Valiev ¹ , Prof. Vladimir Smirnov ¹ 'Saint Petersburg State University, Saint Petersburg, Russia

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
PI	Tuesday, September 19, 2017
rı	Symposium F.4: The Next Generation of Implants with Multi-functional Properties: Advanced Synthesis, Processing and Surface Modification Methods for Biomaterials
	INFLUENCE OF AGING TIME IN THE SYNTHESIS OF HYDROXYAPATITE BY THE SOL-GEL METHOD USING CHICKEN EGGS SHELLS AS CALCIUM PRECURSOR
F4-P-TUE-P1-3	<u>Dr Jose Brant de Campos</u> ¹, Dr Marilza Sampaio Aguilar², Dr Bruno Cavalcante di Lello², Dr Francisco José Moura³, Miss Nathaly Cristiane de Campos³ ¹Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil, ²Universidade Estácio de Sá, Rio de Janeiro, Brazil, ³PUC-Rio, Rio de Janeiro, Brazil
	CALCIUM-PHOSPHATE COATINGS BY ELECTROSTATIC SPRAY DEPOSITION
F4-P-TUE-P1-4	<u>Dr Laurent Gremillard</u> ¹ , Dr Solène Tadier ¹ , Pr. Elisabeth Djurado ^{2,3} , Dr. Rakesh Sharma ^{2,3} 'Insa-Iyon, Cnrs, Villeurbanne, France, ² Univ. Grenoble Alpes, LEPMI, Grenoble, France, ³ CNRS, LEPMI, Grenoble, France
	EVALUATION OF STRUCTURAL MODIFICATION OF CONVENTIONAL AND CROSSLINKED PE-UHMW ACETABULAR LINERS AFTER IN VIVO USE
F4-P-TUE-P1-5	Prof. Vasiliki-Maria Archodoulaki ¹ , Anna LASKA ² , Aysenur ORS UNSAL ¹ , Dr. Bernadette DUSCHER ¹ 1TU Wien (Vienna University of Technology), Vienna, Austria, ² Lodz University of Technology, Lodz, Poland
	MAGNETIC POLYMER MICROSPHERES OF PHBV WITH SURFACE MODIFIED SPIONS FOR BIOMEDICAL APPLICATION
F4-P-TUE-P1-6	Dr. Maizlinda Izwana Idris ^{1,2} , Dr. rer. nat. Jan Zaloga ³ , Professor Dr. med. Christoph Alexiou ³ , <u>Professor DrIng. habil. Aldo Roberto Boccaccini</u> ¹ ¹TU Wien (Vienna University of Technology), Vienna, Austria, ²Lodz University of Technology, Lodz, Poland
	ON THE DESIGN OF LOW RIGIDITY BIOCOMPATIBLE TI-XNB (0 < X< 35) ALLOYS BY DENSITY FUNCTIONAL THEORY CALCULATIONS
F4-P-TUE-P1-7	<u>Dr Julio Gutierrez Moreno</u> ^{1,2} , Dr Dimitris G. Papageorgiou ¹ , Dr Christina Lekka ¹ , Prof Georgios A. Evangelakis ³
	¹ Department of Materials Science and Engineering. University of Ioannina, Ioannina, Greece, ² Tyndall National Institute. University College Cork, Cork, Ireland, ³ Department of Physics. University of Ioannina, Ioannina, Greece
F4-P-TUE-P1-8	MICROSTRUCTURE CHARACTERIZATION AND MECHANICAL PROPERTIES OF HOMOGENIZED TI-Nb-Mo-Zr ALLOYS FOR BIOMEDICAL APPLICATION
	Aline Raquel Vieira Nunes ¹ , Gabriel Sinara Borborema ¹ , Luiz Henrique de Almeida ¹ 'Universidade Federal do Rio de Janeiro, Rio de Janeiro - RJ, 21.941-972, Brazil
	DESING OF NEW BIOCOMPATIBLE TI-BASED AMORPHOUS METALLIC COATINGS WITH LOW YOUNG'S MODULUS FOR DENTAL IMPLANTS
F4-P-TUE-P1-9	Doctor Emilio Frutos Torres ¹ , Doctor Tomas Polcar ² ¹ Department of Control Engineering, Faculty of Electrical Engineering, Czech Technical University in Prague, Prague, Czech Republic, ² Engineering Materials, University of Southampton, Southampton, United Kingdom

TIME: 13:00-15:00 R00M: F0YER, E1/M1

Tuesday, September 19, 2017

Symposium G.1: Competences and basic knowledge in the ICTER

A SERVICE-LEARNING EXPERIENCE IN MATERIALS SCIENCE CORE COURSES FOR ENGINEERS: THE PROJECT AND THE PERCEPTION OF THE STUDENTS

G1-P-TUE-P1

Dr. Teresa Guraya¹, Dr. Luis Cabedo², Dr. María Lidón Moliner², Mrs. Marta Royo², Dr. Igor Puerto¹, Dr. Esperanza Diaz-Tajada¹

'University Of The Basque Country, Bilbao, Spain, ²University Jaume I, Castellón, Spain

TIME: 13:00-15:00 ROOM: FOYER, E1/M1

Tuesday, September 19, 2017

Symposium G.2: Key material fields for modern curricula

A SUSTAINABLE EUROPEAN CENTRE FOR RISK MANAGEMENT AND SAFE INNOVATION IN NANOMATERIALS AND NANOTECHNOLOGIES (EC4SafeNano) — DEVELOPING THE GREEK HUB

Dr Effie Marcoulaki¹, Dr Myrto Konstantinidou¹, Dr Panagiotis Neofytou, Dr Konstantinos Eleftheriadis, Dr Olga Aneziris, Dr Marika Pilou, Dr Maria Gini, Dr Ioannis Papazoglou 'National Centre for Scientific Research "Demokritos", Greece

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	TIME: 13:00-15:00 R00M: FOYER, E1/M1
PI	Tuesday, September 19, 2017
PI	Symposium H.1: Critical Materials: Impact on Near-term Advanced Energy Technologies
	TUNING OF MAGNETIC PROPERTIES OF HEUSLER-TYPE GLASS-COATED MICROWIRES
H1-P-TUE-P1-1	Dr. Valentina Zhukova ¹ , Dr. Mihail Ipatov ¹ , Mr. Sergey Shevyrtalov ² , Dr. Valeria Rodionova ² , Dr. Prof. Arcady Zhukov ³
	¹ Dept. Phys. Mater. and Dept. Appl. Phys. Univ. Basque Country , San Sebastian, Spain, ² Immanuel Kant Baltic Federal University , Kaliningrad , Russia, ³ Dept. Phys. Mater. Univ. Basque Country and Ikerbasque, Basque Found. Science, Spain

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
P1	Tuesday, September 19, 2017
• •	Symposium H.2: Sustainable Production of (Critical) Materials
	CERAMIC SHELL: AN ALTERNATIVE RAW MATERIAL FOR PRODUCTION OF RADIANT POROUS BURNERS
H2-P-TUE-P1-1	Dr.ing. Antonio Pedro Novaes de Oliveira ¹ , MSc. Naiane Paiva Stochero ¹ , Dr.Ing. Elisângela Guzi de Moraes ¹ 'Federal University of Santa Catatina (UFSC), Graduate Program in Materials Science and Engineering (PGMAT), Laboratory of Glass-Ceramic Materials (VITROCER), Campus Universitário, Trindade - PO Box 476, 80040-900 Florianópolis., Brazil
	PHASE VARIATION AND METAL ELEMENT MIGRATION IN CARBOTHERMIC REDUCTION PROCESS OF (V, Cr)-BEARING TITANOMAGNETITE RESIDUE
H2-P-TUE-P1-2	Ph.D. Bo Zhang ^{1,2} , Mr. Sen Gao ^{1,2} , Mr. Weibin Chen ^{1,2} , Miss Yun Ye ^{1,2} , Ph.D. Chengjun Liu ^{1,2} 'Scool of Metallurgy, Northeastern University, Shenyang, China, ² Key Laboratory for Ecological Metallurgy of Multimetallic Ores (Ministry of Education), Northeastern University, Shenyang, China
Ha D THE D1 2	DEVELOPMENT OF NdFe ₁₂ -based magnetic films by electrodeposition from aqueous-and ionic liquid-based electrolytes as an alternative reprocessing route for recycled Nd-Fe-b permanent magnets
H2-P-TUE-P1-3	Xuan Xu ^{1,2} , Spela Trafela ^{1,2} , Awais Ikram ^{1,2} , Farhan Mehmood ^{1,2} , Saso Sturm ^{1,2} , <u>Dr. Kristina Zuzek Rozman</u> ¹ ¹Jozef Stefan Institute, Ljubljana, Slovenia, ²Jozef Stefan International Postgraduation School, Ljubljana, Slovenia
	LITHIUM CARBONATE RECYCLING FROM CATHODE SCRAP OF SPENT LITHIUM-ION BATTERY
H2-P-TUE-P1-4	Zhi Sun ¹ , Xiao Lin ¹ , Hongbin Cao ¹ , Yi Zhang ¹ 'Institute Of Process Engineering, Chinese Academy Of Sciences, Beijing, China
H2-P-TUE-P1-5	INTEGRATED METHOD FOR NONFERROUS METALS RECOVERY FROM WASTE ELECTRIC AND ELECTRONIC EQUIPMENT (WEEE) USING MICROWAVE ENERGY
	<u>Doctor Engineer Vasile Soare</u> ¹ , Engineer Marian Burada ¹ , Doctor engineer Daniela Dumitrescu ¹ , Engineer Ionut Constantin ¹ , Doctor Engineer Dumitru Mitrica ¹ , Engineer Mihai Olaru ¹ , Engineer Victoria Soare ¹ , Doctor Engineer Mihai Ghita ¹ , Doctor Engineer Ana Maria Julieta Popescu ² , Professor Doctor Engineer Mihai Buzatu ³
	'National R&d Institute For Nonferrous And Rare Metals-imnr, Pantelimon, Romania, ² llie Murgulescu Institute of Physical Chemistry of the Romanian Academy, Bucharest, Romania, ³ University Politehnica of Bucharest, Faculty of Material Science and Engineering, Bucharest, Romania
H2-P-TUE-P1-6	TOWARDS HIGHLY ADVANCED, NON-BRITTLE Fe-AL BASED INTERMETALLICS
	Dr. Wolfgang Kochanek², Dr. Srdjan Milenkovic³, Dr. Santhanu Jana⁴, Dr. Pavel Hanus⁴, <u>Dr. Panagiotis Kavouras</u> ¹, Dr. Costas Charitidis¹
	¹ Research Unit of Advanced, Composite, Nano-Materials and Nanotechnology, School of Chemical Engineering, National Technical University of Athens, http://nanolab.chemeng.ntua.gr/, Athens, Greece, ² Dr. Kochanek Entwicklungsgesellschaft, Freiheitstr. 57, 67434, Germany, ³ IMDEA Materials Institute, Getafe, Spain, ⁴ Access e.V., Materials + Processes, Intzestr. 5, 52072, RWTH-Aachen, Germany, ⁵ Technical University of Liberec, Studentská 1402/2, 46117, Czechia

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
P1	Tuesday, September 19, 2017
•••	Symposium H.2: Sustainable Production of (Critical) Materials
H2-P-TUE-P1-7	RECOVERY OF CHROMIUM FROM CHROMITE ORE PROCESSING RESIDUE BY CARBOTHERMIC REDUCTION IN THE PRESENCE OF ALKALI
	Miss Lidia Escudero Castejon¹, Dr Sergio Sanchez-Segado¹, Prof Animesh Jha¹¹University Of Leeds, Leeds, United Kingdom
	RECOVERING OF GOLD DEPOSITED ON GERMAN SILVER SUPPORT
H2-P-TUE-P1-8	Ceylan Karabudak ¹ , Muhammed İhsan Özgün ¹ , <u>Dr Yasin Ramazan Eker¹</u> ¹ Konya Necmettin Erbakan University, Konya, Turkey
	LEACHING OF METALS IN RED MUD WITH ACIDIC SOLUTIONS
H2-P-TUE-P1-9	Tugba Selcen Atalay¹, Hakan Burak Karadag¹, Mehmet Muzaffer Karadag², Yasin Ramazan Eker¹¹Necmettin Erbakan University, Department of Metallurgical and Materials Engineering, Konya, Turkey, ²Selcuk University, Department of Geological Engineering, Konya, Turkey
	ENERGY EFFICIENT RECOVERY OF LEAD FROM SPENT LEAD ACID BATTERIES USING DEEP EUTECTIC SOLVENTS
H2-P-TUE-P1-10	<u>Dr Andrew Ballantyne</u> ¹ , Prof Geoff Kelsall ² , Prof Jason Riley ¹ , Prof Nilay Shah ² , Dr Jason Hallett ² , Dr David Payne ¹
	¹ Department of Materials, Imperial College London, London, United Kingdom, 2Department of Chemical Engineering, Imperial College London, London, United Kingdom
H2-P-TUE-P1-11	COMPARISON BETWEEN TWO PARTIAL LEAST SQUARES REGRESSION APPROACHES FOR THE CHEMICAL QUANTIFICATION OF MOLTEN NON-FERROUS SLAG
	Elise François ¹ , Odhisea Gazeli ^{2,3} , Dr. Annelies Malfliet ¹ , Prof. George Angelopolous ⁴ , Prof. Stelios Couris ^{2,3} , Prof. Bart Blanpain ¹ **Department of Materials Engineering, KU Leuven, 3001 Heverlee, Belgium, **Department of Physics, University of Patras, 26505 Patras, Greece, **Institute of Chemical Engineering Sciences, Foundation for Research and Technology, Hellas, 26505 Patras, Greece, **Department of Chemical Engineering, 26505 Patras, Greece

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
P1	Tuesday, September 19, 2017
г	Symposium H.3: Materials Life Cycle Approach and Flow Analysis
H3-P-TUE-P1-1	SUSTAINABILITY ANALYSIS OF AN EUROPEAN UNDERGROUND RESEARCH INFRASTRUCTURE RELATED TO ADVANCED ADIABATIC COMPRESSED AIR ENERGY STORAGE (AA-CAES): RICAS2020 PROJECT
	Degree in Environmental Science Ariadna Claret¹, Degree in Environmental Science Maria Rosa Riera¹, Degree in Environmental Science Gertri Ferrer¹, Degree in Environmental Science Marta Escamilla¹, Dr. Mónica Beatriz Della Pirriera ¹¹Leitat, Terrassa, Spain
	MICROSTRUCTURE AND THERMAL CHARACTERIZATION OF THE PET-G FOIL BEFORE AND AFTER RECYCLING
H3-P-TUE-P1-2	Ph.D. Eng. Rafal Kozera ¹ , M.Sc. Eng. Kamil Dydek ¹ , M.Sc. Eng. Paulina Latko-Durałek ¹ , P.hD. Eng. Paulina Kozera ¹ , Prof. Anna Boczkowska ¹ 'Warsaw University Of Technology, Faculty Of Materials Science And Engineering, Ul. Woloska 141, Poland
H3-P-TUE-P1-3	THERMAL AND MECHANICAL PROPERTIES OF PETG/rPETG BLENDS
	Phd Student Kamil Dydek ¹ , PhD Student Paulina Latko-Duralek ¹ , Student Kajetan Chodorowski ¹ , PhD. Eng. Rafał Kozera ¹ , PhD. Eng. Paulina Chabera ¹ , Prof. Anna Boczkowska ¹ *Warsaw University Of Technology, Faculty of Materials Science and Engineering, Warsaw, Poland

		TIME: 13:00-15:00	ROOM: FOYER, E1/M1
P2	Thursday September 21,	2017	
F.Z.	Symposium A.1: Carbon-based nar	nomaterials	
A1-P-THU-P2-1	INFLUENCE OF THE Co: NI RATIO ON THE PROPERTIES OF Co-NI CARBON-CONTAINING NANOCOMPOSITES	NANOPARTICLES A	ND THEIR
	Professor, PhDoctor Ivania Markova ¹ , PhD student Ivan Zahar Master student Emre Karaduman ² , Associate professor, PhDodessociate professor Ludmil Fachikov ¹ , Associate professor PhDodessor Boyan Yordanov ¹ , Assistant professor Dir University of Chemical Technology and Metallurgy, Sofia, Bulgaria, 2Yildiz Technology and Metallurgy, Sofia, Bulgaria, Sofia, Sofia, Bulgaria, Sof	ctor Mehmet Piskir hDoctor Rositca Ga nka Ivanova¹	vrilova ¹ ,
	HIGH-CURRENT FIELD-EMISSION CARBON STRUCTURES FOR MI	ICROWAVE ELECTRO	INICS
A1-P-THU-P2-2	Doctor Of Science Valeri Timoshenkov ¹ , Doctor Of Science Ra ¹ National Research University Of Electronic Technology, Moscow, Russian Feder and Electronics, Saratov Branch, Russian Academy of Sciences, Saratov, Russian	ration, ² Kotelnikov Institu	ite of Radioengineering
	INFLUENCE OF DISPERSION OF GRAPHENE OXIDE AND REDUCEI IN GAS PERMEATION AND FRICTION BEHAVIOR ON STAINLESS S		ON POLYURETHANE
A1-P-THU-P2-3	Dr Jose Brant de Campos ¹ , Mr Alessandro E. L. Silva 1, Dr Stefa Dr Cecilia Vilani ² , Dr Eric C. Romani ² , Dr Juan Lucas Nachez ⁴ , Dr Fernando Lázaro Freire Junior ² , Dr Lincoln Silva Gomes ³ 'Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil, ² Pontificia Uni Janeiro, Brazil, ³ Instituto SENAI de Tecnologia Solda, Rio de Janeiro, Brazil, ⁴ Uni Brazil	Or Suzana Bottega	•
	COATING OF CARBON-NANOTUBES ON CERAMIC AND METALLIC	MATERIALS	
A1-P-THU-P2-4	Dr Jose Brant de Campos ¹ , Mr Alessandro E. L. Silva1, Dr Stefa Dr Florica Simescu-Lazar ¹ , Dr Tesnim Chaieb ¹ , <u>Stephanie Pall</u> Dr Régis Philippe ¹ , Dr Valérie Meille ¹ 'LGPC-CNRS University of Lyon, Villeurbanne, France, ² LC2P2-CNRS University	<u>ier</u> 1, Dr Laurent Ve	
	CARBOXYL FUNCTIONALIZATION OF CVD GRAPHENE FOR BIO-MI		
A1-P-THU-P2-5	Sandra Cortijo ¹ , Leo Álvarez-Fraga ¹ , Dr Gil Gonçalves ² , Dr Mei Dr Patricia Alvarez ⁴ , Prof. Rosa Menéndez ⁴ , Dr Javier Palomaro Prof Carlos Prieto ¹ 'Consejo Superior De Investigaciones Científicas, Madrid, Spain, ² Department of	es¹, Prof. Alicia De	Andrés ¹ ,
	Aveiro, Portugal., ³ Department of Biology, University of Aveiro, , Aveiro, Portugal Oviedo, Spain	l, 4Instituto Nacional de	l Carbón, CSIC, 33011,
	USE OF GRAPHENE OXIDE FOR THE REMOVAL OF ARSENIC IN WA	ATER	
A1-P-THU-P2-6	Mrs Gabriela Navarro ¹ , Mrs Ana Cecilia Reynosa ¹ , <u>Dr Eddie Lo</u> ¹ Cinvestav, Mexico	pez-Honorato¹	
	GRAPHENE-BASED PHASE CHANGING NANO-MATERIALS FOR TI	HERMAL STORAGE	APPLICATIONS
A1-P-THU-P2-7	Graduate Student Antonia Zisopoulou ¹ ¹ University of Ioannina, Ioannina, Greece		
	SYNTHESIS OF SANDWICH MICROSTRUCTURED EXPANDED GRAF WITH CARBON NANOTUBE COMPOSITE AND ITS ELECTROMAGNE		
A1-P-THU-P2-8	Dr. Tingkai Zhao ¹ , Wenbo Jin1, Xianglin Ji ¹ , Wenbo Yang ¹ , Jingl ¹ State Key Laboratory of Solidification Processing, Shaanxi Engineering Laborate Applications, School of Materials Science and Engineering, Northwestern Polyte	ory for Graphene New Co	arbon Materials and , China
	MAGNETIC AND ELECTRICAL CHARACTERIZATION OF Pd1-XNIX DNANOCOMPOSITES	DECORATED REDUC	ED GRAPHENE OXIDE
A1-P-THU-P2-9	Ms. Vineeta Shukla ¹ , Dr. Suneel Kumar Srivastava ¹ , Dr. Sanjee ¹ IIT Kharagpur, KHARAGPUR, India	v Kumar Srivastava	91
	PREPARATION AND CHARACTERIZATION OF CARBON/ METAL AN NOVEL LOW-COST PERSPECTIVE ELECTROCATALYTIC MATERIALS		
A1-P-THU-P2-10	Dr. Erika Mudra ¹ , Dr. Magdalena Streckova ¹ , Dr. Renata Orinak Prof. Jan Dusza ¹		
	¹ Institute of Materials Research, Slovak Academy of Sciences, Watsonova 47, K of Physical Chemistry, Faculty of Science, P.J. Safarik University, Moyzesova 11, Geotechnics, Slovak Academy of Sciences, Watsonova 45, 040 01 Kosice, Slovak	040 01 Kosice, Slovak Ří	ublic, ² Department epublic, ³ Institute of

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
P2	Thursday September 21, 2017
PZ	Symposium A.1: Carbon-based nanomaterials
A1-P-THU-P2-11	ASSESSMENT OF ACTIVATED KEVLAR FIBERS AS CARBON-BASED NANOSTRUCTURED MATERIAL FOR GAS ADSORPTION
	Ing. Giuseppe Conte ¹ , Victor Lazzaroli ¹ , Dr. Sara Stelitano ¹ , Dr. Alfonso Policicchio ^{1,2,3} , Dr. Francesco Demetrio Minuto ¹ , Dr. Valentino Pingitore ² , Oreste De Luca ^{1,3} , Prof. Raffaele Giuseppe Agostino ^{1,2,3}
	¹ Università Della Calabria, Arcavacata di Rende (CS), Italy, 2Consorzio Nazionale Interuniversitario per le Scienze Fisiche della Materia , Roma, Italy, 3CNR - Nanotec, c/o Università della Calabria, Italy
	NONLINEAR RESPONSE AND TUNABLE EXCITONIC ABSORPTION IN GAPPED MONOLAYER AND BILAYER GRAPHENE
A1-P-THU-P2-12	Konstantinos Moulopoulos ¹ , Artak A. Avetisyan ² , Anahit P. Djotyan ²
	¹ Department of Physics, University of Cyprus, Nicosia, Cyprus, ² Yerevan State University, Department of Physics, Yerevan, Armenia
A1-P-THU-P2-13	APPLICATION OF CHEMICAL MODIFIED CARBON NANOTUBES WITH DIAZONIUM SALTS AS ANODE FOR MICROBIAL FUEL CELLS
	<u>Dr. Silviu Vulpe1</u> ¹ , Dr. Adrian Radu ¹ , Dr. Mihaela Temelie ¹ , Dr. Anca Dumitru ¹ 'University of Bucharest - Faculty of Physics, Bucharest, Romania

		TIME: 13:00-15:00	ROOM: FOYER, E1/M1
P2	Thursday September 2	1, 201 <i>7</i>	
	Symposium A.2: Innovations in Function	nal Nanomagne	ts
A2-P-THU-P2-1	MEASUREMENT UNCERTAINTY SOURCES IN THE CHARACTERIZE FOR HYPERTHERMIA	ZATION OF MAGNETIC	NANOPARTICLES
	Phd Candidate Nikos Maniotis ¹ , Professor Theodoros Sama 'Aristotle University of Thessaloniki, Thessaloniki, Greece	ras ¹	
	A NOVEL DEVICE FOR GENERATION OF UNIQUE MAGNETIC FIE MAGNETO-MECHANICAL EFFECTS ON CELLULAR ENVIRONME		TO PROMOTE
A2 -P-THU-P2-2	M.Sc. Antonios Makridis ¹ , M.Sc. Katerina Spyridopoulou ² , M.Sc. Eirini Myrovali ¹ , Dr Theodoros Samaras ¹ , Dr Makis And Dr Orestis Kalogirou ¹ "Department of Physics, Aristotle University of Thessaloniki, 54124, Thessalo Genetics, Democritus University of Thrace, Alexandroupolis, Greece	gelakeris¹, Dr Katerin	a Chlichlia²,
	PHYSICAL PROPERTY EVALUATION OF A POLYDISPERSE FERR	OFI UID VIA A MONTE	CARLO SIMULATION
A2-P-THU-P2-3	Andreas Nazlidis ¹ , Kioseoglou Joseph, Theodoros Samaras 'Aristotle University Of Thessaloniki, Thessaloniki, Greece		
	NATURAL MAGNETIC MULTILAYERS: GROWTH AND MAGNETIS	М	
A2-P-THU-P2-4	<u>Dr Panagiotis Poulopoulos</u> ¹, Mr D.I. Anyfantis¹, Mr D. Ntemo Dr A. Delimitis², Dr S.D. Pappas³, Dr V. Kapaklis³		
	¹ University Of Patras, Materials Science Department, 26504, Patras, Greece, (CPERI) Centre for Research & Technology Hellas (CERTH), 57001 Thermi, Ti Astronomy, Uppsala University, Box 516, SE-75120, Uppsala, Sweden	² Chemical Process & Energ hessaloniki, Greece, ³ Depar	y Resources Institute tment of Physics and
A2-P-THU-P2-5	EX VIVO STUDIES OF MAGNETIC NANOPARTICLE HEATING IN A	AN AC MAGNETIC FIEL	D
	BSc Student Zoi Kalpaxidou ¹ , Student Chara Iliaskou ¹ , MSc S MSc Student Nikos Maniotis ¹ , Doctor Theodoros Samaras ¹ , I 'Auth, Thessaloniki, Greece	Student Eirini Myrova Doctor Makis Angelak	li ¹ , reris ¹

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1	
P2	Thursday September 21, 2017	
Symposium A.2: Innovations in Functional Nanomagnets		
	MAGNETIC NANOPARTICLE INCORPORATION IN MAGNETIC STIMULATION PROTOCOLS	
A2-P-THU-P2-6	Bachelor Tamara Nastasia Titilola Ais Odutola ¹ , MSc Student Eirini Myrovali ¹ , MSc Student Antonis Makridis ¹ , MSc Student Nikos Maniotis ¹ , Doctor Vasilios Kimiskidis ² , Doctor Theodoros Samaras ¹ , Doctor Makis Angelakeris ¹ 1Physics Department, Aristotle University of Thessaloniki, Thessaloniki, 54124, Greece, 2Laboratory of Clinical Neurophysiology, Aristotle University of Thessaloniki, Thessaloniki, 54124, Greece	
	STRUCTURAL AND MAGNETIC PROPERTIES OF Mn-BASED RIBBONS CONTAINING AL	
A2-P-THU-P2-7	Dr Charalampos Sarafidis ¹ , Dr Margariti Gjoka² ¹ Department Of Physics, Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece, ² Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Athens, Greece, Agia Paraskevi, Greece	
	CONTROLLING NUCLEATION RATES WITH PATTERNS OF IMPURITIES	
A2-P-THU-P2-8	M.Sc. Egon Tschurtschenthaler¹¹University Of Vienna - Faculty of Physics, Vienna, Austria	
	INVESTIGATING MAGNONICS THROUGH STRUCTURAL EFFECTS IN EPITAXIAL THIN Fe/Pt FILMS	
A2-P-THU-P2-9	<u>Dimitrios Karfaridis</u> ¹ , Dr. Konstantinos Simeonidis ¹ , Sascha Keller ² , Dr. Ulf Wiedwald ³ , Dr. George P. Dimitrakopulos ¹ , Dr. Thomas Kehagias ¹ , Dr. Makis Angelakeris ¹ , Dr. Evangelos Th. Papaioannou ² , Dr. George Vourlias ¹ "Department of Physics, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, "Department of Physics and National Research Center OPTIMAS, Technical University of Kaiserslautern, 67663 Kaiserslautern, Germany, "Faculty of Physics and Center for Nanointegration (CENIDE), University of Duisburg-Essen, 47057 Duisburg, Germany	
	MAGNETIC HARDENING OF FeCo NANOWIRE ARRAYS BY SANDWICHING WITH ANTIFERROMAGNETS	
A2-P-THU-P2-10	Fangzhou Wang¹, Dr. Ruslan Salikhov¹, Dr. Marina Spasova¹, Dr. Sara Liébana-Viñas¹, Dr. Christina Bran², Yu-Shen Chen².³, Prof. Manuel Vázquez², Prof. Michael Farle¹.⁴, Dr. Ulf Wiedwald¹ ¹Faculty of Physics and Center for Nanointegration Duisburg-Essen, University of Duisburg-Essen,	
	DETERMINATION OF THE SPIN PUMPING CONTRIBUTION TO THE MAGNETIC DAMPING OF THIN Fe/GaAS FILMS BY IN SITU MULTIFREQUENCY FERROMAGNETIC RESONANCE	
A2-P-THU-P2-11	<u>Dr. Florian M. Römer</u> ¹ , Paul Wendtland ¹ , Prof. Dr. Michael Farle ¹ **Experimental Physics, AG Farle, University Duisburg-Essen, Duisburg, Germany	
A2-P-THU-P2-12	MAGNETIZATION REVERSAL IN IN FERROMAGNETIC COAXIAL NANORODS	
	Irene Iglesias ¹ , Thomas Feggeler ¹ , Prof.Dr. Michael Farle ^{1,2} ¹ Faculty of Physics and Center for Nanointegration (CENIDE), University Duisburg-Essen, 47057 Duisburg, Germany, 2Center for Functionalized Magnetic Materials (FunMagMa), IKBFU, Kaliningrad, Russia	
	DEPOSITION AND CHARACTERIZATION OF HEXAGONAL NON-COLLINEAR ANTIFERROMAGNETIC Mn3SN FILMS	
A2-P-THU-P2-13	<u>Dr. Anastasios Markou</u> ¹ , Adel Kalache ¹ , Dr. Peter Werner ² , Prof. Dr. Claudia Felser ¹ ¹ Max Planck Institute for Chemical Physics of Solids, Dresden, Germany, 2Max Planck Institute of Microstructure Physics, Halle, Germany	

	TIME: 13:00-15:00 R00M: FOYER, E1/M1
P2	Thursday September 21, 2017
14	Symposium A.6-II: Advanced Materials for Space Exploration / Part 2
	ADDITIVE MANUFACTURING FOR SPACE INSTRUMENTATION AND SUBSYSTEMS
A6-II-P-THU-P2-1	Mr Geoffrey Oger ¹ , Mr Grégory Nolens ² , Mr Johannes Gumpinger ³ , Mr Pierre Rochus ¹ ¹Centre Spatial De Liège (CSL), Liège, Belgium, ²CERHUM, Liège, Belgium, ³European Space Agency, Noordwijk, The Netherlands
	SIMULATION OF SPACE AND GROUND-BASED TESTS OF MATERIALS
A6-II-P-THU-P2 -2	Prof Genadij Frolov ¹ , Dr. Oleg Udovyk ¹ ¹ Institute For Problems Of Material Science Of National Academy of Sciences, Kiyv, Ukraine
A6-II-P-THU-P2-3	STUDY ON THE FACTORS AFFECTING THE MECHANICAL BEHAVIOR OF ELECTRON BEAM MELTED Ti6AI4V
	<u>Dr Carmine Pirozzi</u> ¹ , Dr Rosario Borrelli ¹ , Dr Stefania Franchitti ¹ , Professor Fabrizia Caiazzo ² , Dr Vittorio Alfieri ² , Dr Paolo Argenio ²
	Iltalian Aerospace Research Center, Capua, Italy, ² Dipartimento di Ingegneria Industriale, Università degli Studi di Salerno, Fisciano, Italy

	TIME: 13:00–15:00 ROOM: FOYER, E1/M1		
P2	Thursday September 21, 2017		
FZ	Symposium A.7-II: Functional Nanomaterials for Novel Applications/ Part 2		
	NANOSTRUCTURES OF LUMINESCENT IZO (INDIUM-ZINC-OXIDE) DOPED WITH Ga AND Fe		
A7-II-P-THU-P2-1	Javier García-Fernández², Almudena Torres-Pardo², Julio Ramírez-Castellanos², Ana Cremades¹, Javier Piqueras¹, José María González-Calbet² ¹Dept. Física de Materiales, Facultad de Físicas, Universidad Complutense De Madrid, Madrid, Spain, ²Dept. Química Inorgánica, Facultad de Químicas, Universidad Complutense de Madrid, Madrid, Spain		
	RELATIONSHIP BETWEEN MICROSTRUCTURE AND RHEOLOGY IN NEWLY DEVELOPED NANO-BASED DRILLING FLUIDS		
A7-II-P-THU-P2-2	Mr Zisis Vryzas ^{1,2} , Mrs Anastasia Terzidou ¹ , Prof. Vassilis Zaspalis ^{1,3} , Dr Lori Nalbandian ³ , Prof. Vassilios C. Kelessidis ⁴		
	Chemical Engineering Department, Aristotle University Of Thessaloniki, Thessaloniki, Greece, ² Department of Petroleum Engineering, Texas A&M University at Qatar, Doha, Qatar, ³ Chemical Process and Energy Resources Institute, The Centre for Research and Technology Hellas, Thessaloniki, Greece, ⁴ Department of Petroleum Engineering, The Petroleum Institute, Abu Dhabi, UAE		
	PLD CDSE-D0PED Li20-Al203-Ba0-La203-Zn0-P205 THIN FILMS FOR SENSING APPLICATIONS		
A7-II-P-THU-P2-3	PhD Constantina-Raluca Iordanescu¹, PhD Mihail Elisa¹, PhD Ileana Cristina Vasiliu¹, PhD Madalin Ion Rusu¹, PhD Laurentiu Octavian Scoicaru¹, PhD Gabriel Socol², PhD Bogdan Alexandru Sava², PhD Lucica Boroica², PhD Mihaela Filipescu²¹National Institute of R & D for Optoelectronics INOE 2000, Magurele, Romania, ²National Institute for Laser, Plasma and Radiation Physics, Magurele, Romania		
	SYNTHESIS AND CHARACTERIZATION OF AI DOPED TiO2 MICRO AND NANOSTRUCTURES GROWN BY A VAPOR-SOLID PROCESS		
A7-II-P-THU-P2-4	María Taeño¹, David Maestre¹, <u>Ana Cremades</u> ¹, Julio Ramírez-Castellanos¹, Javier Piqueras¹¹ <i>Universidad Complutense De Madrid, Madrid, Spain</i>		
	DETECTION OF PSYCHOACTIVE DRUGS BY SURFACE ENHANCED RAMAN SPECTROSCOPY		
A7-II-P-THU-P2-5	Alexandre Merlen ¹ , <u>Cedric Pardanaud</u> ² , David Bergé-Lefranc ² , Trang Phan ² , Nicolas Simon ² , Audrey Boulaméry ² , Virginie Hornebecq ² 1 University of Toulon, Aix Marseille University, Toulon, France, 2 Aix-marseille Université, Marseille, France		
	STUDY OF SnO2, TiO2 AND THEIR COMPOSITES WITH GRAPHENE OXIDE FOR APPLICATIONS IN LI-ION BATTERIES		
A7-II-P-THU-P2-6	Felix Del Prado ¹		
	¹ Universidad Complutense De Madrid, Madrid, Spain		

		TIME: 13:00-15:00	ROOM: FOYER, E1/M1
P2	Thursday September 2	I, 2017	
Symposium A.7-II: Functional Nanomaterials for Novel Applications/ Part 2			ons/ Part 2
A7-II-P-THU-P2-7	ON THE GROWTH AND POST-TREATMENT OF NANOSTRUCTU USING HYDROTHERMAL SYNTHESIS	RED VANADIUM DIOXI	DE (VO2) PHASES
	Doctor Corinne Legros ¹ , Doctor Olga Ishchenko ² , Ana Saro Céline Byl ¹ , Doctor Emilie Amzallag ¹ , Doctor Nathalie Prud Doctor Guy Garry ² , Doctor Michel Andrieux ¹ ¹ Univ. Paris Sud - Univ. Paris Saclay, SP2M-ICMMO, CNRS UMR 8182, Bât 4 Rostand, 91786 Orsay, France, ³ Thales Research & Technology France, Cam 91767 Palaiseau Cedex, France	l'homme ¹ , Doctor Ber	nard Servet³,
	EFFECT OF TRANSFORMATION TEMPERATURE ON NANO PAR		
A7-II-P-THU-P2-8	<u>Dr Rama Balasubramanian</u> ¹ , Mr William Lamber ¹ 'URoanoke College, , Salem,, USA		
	OPTIMIZED HETEROSTRUCTURES FOR MOLECULE DETECTION COMBINING INTERFERENCE AND PLASMON RESONANCE RA		
A7-II-P-THU-P2-9	Leopoldo Alvarez Fraga¹, Esteban Climent-Pascual¹, Mons Rafael Ramírez-Jiménez², Félix Jiménez-Villacorta¹, Carlo ¹Instituto de Ciencia de Materiales de Madrid, Consejo Superior de Investiga Spain, ²Departamento de Física, Escuela Politécnica Superior, Universidad Leganés,, Spain	s Prieto ¹ , Alicia de An	
A7 II D TIIV DO 12	SiO2@TiO2 CORE-SHELL NANOCATALYST PREPARATION, CHA	ARACTERIZATION	
A7-II-P-THU-P2-10	<u>Ioanna Kitsou</u> ¹ , Athena Tsetsekou ¹ , Panagiotis Panagopou ¹ National Technical University Of Athens, Athens, Greece, ² NCSR "Demokrit		32
	USING MECHANICAL ALLOYING FOR PHASE Cr2AlC FORMAT GRAPHENE-LIKE CARBIDES OF MXene TYPES	TION AS PRECURSORS	3 OF
A7-II-P-THU-P2-11	<u>Dr Mariia Saviak</u> ¹ , Volodymyr Ivchenko, Marina Vasil'kivsk Prof. Irina Uvarova		
AT II D TIII DO	¹ Frantsevich Institute for Problems of Materials Science of National Academ DOPING AND CHARACTERIZATION OF ZnO ELONGATED I RESISTIVE HEATING OF Zn WIRES	,	•
A7-II-P-THU-P2-12	<u>Dr. Ana Urbieta¹</u> , Prof. Paloma Fernández¹, Prof. Javier Pic¹Departamento de Física de Materiales, Facultad de C.C. Físicas, Universida		Madrid, Spain
	SYNTHESIS, CHARACTERIZATION AND SWELLING BEHAVIOR POLYMER COMPOSITES	OF SUPERABSORBEN	Т
A7-II-P-THU-P2-13	Irene Kanellopoulou ¹ , Dr. Ioannis Kartsonakis ¹ , Dr. Elias Kr Dr. Costas Charitidis ¹ 'Research Unit of Advanced, Composite, Nano-Materials and Nanotechnolo	nay School of Chemical Foo	
	Technical University of Athens, http://nanolab.chemeng.ntua.gr/, Athens, to STUDY OF Mg INCORPORATION ON ZnO BY DIFFERENT GROW	Greece	
A7 II D TIII D0 47	Esther de Prado ^{1,2} , Dr M. Carmen Martínez-Tomás ² , Profes		anjosé²,
A7-II-P-THU-P2-14	Professor Paloma Fernández¹ ¹Dept. Física de Materiales, University Complutense, 28040 Madrid, Spain, ². U. Valencia, 46100 Burjassot, Spain		
	WATER STRUCTURES IN CARBON NANOTUBES WITH ELECTR OF WATER-ALCOHOL SOLUTIONS	IC FIELDS FOR SEPAR	ATION
A7-II-P-THU-P2-15	Ph.D. Winarto Winarto ¹ Ph.D Daisuke Takaiwa ² , Ph.D Eiji Ya Department of Mechanical Engineering, Faculty of Engineering, Brawijaya Indonesia, ² Department of Mechanical Engineering, Keio University, 3-14-1 ³ Graduate School of Science and Technology, Keio University, 3-14-1 Hiyos.	University, Jl. MT Haryono	167, Malang 65145,
	JUDD-OFELT ANALYSIS AND TRANSITION PROBABILITIES OF AND Ca3Al2Si3012 GLASSES		
A7-II-P-THU-P2-16	Dr. Daniel Sola ¹ , Dr. J. Martinez de Mendivil ² , Dr. N. Dong ³ , Dr. G. Lifante ⁵ , Dr. J.I. Peña ⁶ 'Laboratorio de Optica. Centro de Investigacion en Optica y Nanofisica. Univariatamiento de la Señal y Comunicaciones. Universidad de Mondragón, Arra Key Laboratory of Crystal Materials. Shandong University, Jinan, China, 'Dey Universidad. Catolica del Peru, San Miguel, Lima, Peru, ⁵ Departamento de F	versidad De Murcia, Murcia, asate-Mondragon, Spain, ³ partamento de Ciencias, Se Fisica de Materiales. Facult	Spain, ² Departamento de School of Physics, State ccion Quimica Pontificia ad de Ciencias. Universidad
	Autonoma de Madrid, Madrid, Spain, é Depártamento de Ciencia y Tecnologí. Materiales de Aragon, Universidad de Zaragoza-CSIC, Zaragoza, Spain	a de Materiales y Fluidos. I	nstituto de Ciencia de

	TIME: 13:00-15:00 R00M: F0YER, E1/M1	
P2	Thursday September 21, 2017	
Symposium A.7-II: Functional Nanomaterials for Novel Applications/ Part 2		
	SOLUTION-BASED SYNTHESIS OF AMORPHOUS GERMANIUM NANOPARTICLES FROM ORGANOGERMANIUM HALIDE PRECURSORS	
A7-II-P-THU-P2-17	Bruno Pescara ^{1,2,3} , Dr. Katherine ann Mazzio ^{2,3} , Dr. Giorgia Greco ^{2,3} , Dr. Armin Hoell ^{2,3} , Prof. dr. Klaus Lips ^{2,3,4} , Prof. dr. Simone Raoux ^{2,3,5} *Institute of Chemistry and Biochemistry, Faculty of Mathematics and Natural Science, Freie Universität Berlin, Berlin, Germany, *Energy Materials In-Situ Laboratory, Helmholtz-Zentrum Berlin für Materialien und Energie, GmbH, Berlin, Germany, *Institut für Nanospektroskopie, Helmholtz-Zentrum Berlin für Materialien und Energie, GmbH, Berlin, Germany, *Department of Physics, Faculty of Mathematics and Natural Science, Freie Universität Berlin, Berlin, germany, *Department of Physics, Faculty of Mathematics and Natural Sciences, Humboldt-Universität zu Berlin, Berlin, Germany	
	SYNTHESIS OF NI2P NANOPARTICLES SUPPORTED r -GO composites for hydrodesulphurization applications	
A7-II-P-THU-P2-18	<u>Dr Vasileios Tzitzios</u> ¹ , Dr Marios Kartsiotis ² , Mr Vishnu Pillai ¹ , Mr Thomas Karagiannis ¹ , Ms Anjana Tharalekshmy ¹ , Mr Samuel Stephen ¹ , Dr Dimitrios Gournis ³ , Dr Saeed Alhassan ¹ 1Petroleum Institute University, Abu Dhabi, United Arab Emirates, ² TITAN CEMENT S.A., Athens, Greece, ³ University of Ioannina, Ioannina, Greece	
	OPTIMAL SURFACE FUNCTIONALIZATION OF THERMO-ALKALINE TREATED NANOSTRUCTURED SILICA ADSORBENTS FOR CO2 ADSORPTION	
A7-II-P-THU-P2-19	Phd Student Obdulia Medina Juárez ¹ , PhD Miguel Ángel García-Sánchez ¹ , PhD Fernando Rojas-González ¹ ¹ Universidad Autónoma Metropolitana, México, Mexico	
	CONDENSATION OF SILVER NANOPARTICLE COLLOIDAL SOLUTION FOR USE AS SILVER INKS	
A7-II-P-THU-P2-20	<u>Dr Eleftheria Lili</u> ¹ , Assoc. Prof. DrEng. Nikolaos Michailidis ² ¹Physical Metallurgy Laboratory, School of Engineering, Mechanical Engineering Department, Aristotle University of Thessaloniki, Thessaloniki, Greece, ²PLiN-Nanotechnology SA, Spectra Business Center, Thermi, Thessaloniki, Greece	
	ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF STANENE IN THE ABSENCE AND PRESENCE OF EXTERNAL ELECTRIC FIELD	
A7-II-P-THU-P2-21	<u>Mojde Fadaie</u> ¹ , Proffesor Özgür Müstecaplıoğlu ¹ ¹ Koc University, Physics Department, Istanbul, Turkey	
	PRODUCTION AND STRUCTURAL CHARACTERIZATION OF NANOCRYSTALLINE TERNARY AgCuni Nanoparticles by ultrasonic spray pyrolysis technique (USP)	
A7-II-P-THU-P2-22	Sebahattin Gürmen ¹ , <u>Serzat Safaltın</u> ¹ ¹Koc University, Physics Department, Istanbul, Turkey	
	ENVIRONMENTALLY FRIENDLY CROSS-LINKING OF HYDROLYSED POLYACRYLAMIDE GELS FOR ENHANCED OIL RECOVERY	
A7-II-P-THU-P2-23	<u>Juan Yang</u> ¹ , Huaitian Bu ¹ , Britt Sommer ¹ , Kjell Olafsen ¹ , Fuad Karimov ¹ , Nicolas Rival ¹ , Christian Simon ¹ **Materials and Chemistry, SINTEF, Forskningsveien 1, NO-0314, Oslo, Norway	
	BIOSOURCED AND LIGNOCELLULOSIC MATERIALS FOR ELECTROCHEMICAL ENERGY STORAGE AND CONVERSION	
A7-II-P-THU-P2-24	Federico Bella ¹ , Simone Galliano ² , Francesca Colò ¹ , Marisa Falco ¹ , Guido Viscardi ² , <u>Claudia Barolo²</u> , Claudio Gerbaldi ¹ 'Department of Chemistry, NIS Interdepartmental Centre and INSTM Reference Centre, Università degli Studi di Torino, Torino, Italy, ² GAME Lab, Department of Applied Science and Technology (DISAT), Politecnico di Torino, Torino, Italy	
	FUNCTIONAL DYES IN NANOSTRUCTURED MATERIALS: SYNTHESIS AND CHARACTERIZATION	
A7-II-P-THU-P2-25	Claudia Barolo ^{1,2} , Nadia Barbero ¹ , Simone Galliano ¹ , Claudio Magistris ¹ , Roberto Buscaino ¹ , Pierluigi Quagliotto ¹ , Guido Viscardi ¹ Department of Chemistry, NIS Interdepartmental Centre and INSTM Reference Centre, Università degli Studi di Torino, Torino, Italy, ² (CXT Interdepartmental Centre, Università di torino, Torino, Italy	

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
P2	Thursday September 21, 2017
14	Symposium A.9: Functional Membranes
A9-P-THU-P2-1	ELECTRON BEAM MODIFIED CELLULOSE ACETATE ELECTROSPUN MATS FOR FILTRATION OF PHARMACEUTICALS
	Msc. Engineering Natalia Cano-Murillo ^{1,2} , Dr. Anna Maria Elert ¹ , Dr. rer.nat Ulrike Braun ¹ , Pr. Dr. rer.nat Heinz Sturm ^{1,2} ¹ Federal Institute for Materials Research and Testing BAM, Berlin, Germany, ² Technical University Berlin, Berlin, Germany
A9-P-THU-P2-2	GAS DIFFUSION IN POLYMER OF INTRINSIC MICROPOROSITY: AN EXPERIMENTAL AND COMPUTATIONAL APPROACH
	Dr. Alessio Fuoco ¹ , Ms Carmen Rizzuto ¹ , Dr Elena Tocci ¹ , Dr Mariolino Carta ² , Prof Neil B McKeown ² , Dr Johannes C. Jansen ¹
	¹Institute on Membrane Technology (ITM -CNR), Rende, Italy, ²School of Chemistry, University of Edinburgh, Edinburgh, United Kingdom
A9-P-THU-P2-3	PREPARATION OF Ba0.5Sr0.5Co0.8Fe0.203-X SUPPORTS THOUGH FREEZE-CASTING METHOD
	MSc. Douglas Fernandes Souza ¹ , PhD. Eduardo Henrique Martins Nunes ¹ , PhD. Wander Luiz Vasconcelos ¹
	¹ Federal University of Minas Gerais, Belo Horizonte, Brasil
A9-P-THU-P2-4	MULTIFUNCTIONAL NANOCELLULOSE/SILICA HYBRIDS FOR FUNCTIONAL APPLICATIONS
	<u>Luis Valencia Lopez</u> ¹ , Dr Aji Mathew ¹ ¹Federa Stockholm University, Stockholm, Sweden

	TIME: 13:00–15:00 ROOM: FOYER, E1/M1
P2	Thursday September 21, 2017
	Symposium B.1: Advanced High Strength Steels
	BALANCING THE COBALT/TUNGSTEN AND THE COBALT/NIOBIUM RATIO IN NOVEL MARTENSITIC CREEP STEELS
B1-P-THU-P2-1	Mr. Hao Yu¹, Dr. Wei Xu², Dr. Sybrand van der Zwaag³ ¹Novel Aerospace Materials group, Faculty of Aerospace Engineering, Delft University Of Technology, Delft, the Netherlands, ²State Key Laboratory of Rolling and Automation, Northeastern University, Shen Yang, China, ³Novel Aerospace Materials group, Faculty of Aerospace Engineering, Delft University Of Technology, Delft, the Netherlands
	ENHANCING STRAIN HARDENING IN ULTRA-FINE AND NANOSTRUCTURED BAINITIC STEELS
B1-P-THU-P2-2	Miguel Benito-Alfonso ¹ , Shao-Pu Tsai ² , Jer-Ren Yang ² , Rosalia Rementeria ¹ , Lucia Morales-Rivas ³ , Carlos García-Mateo ¹ , Francisca G. Caballero ¹ ¹ National Center for Metallurgical Research (CENIM-CSIC)), Madrid, Spain, ² National Taiwan University, Taipei, Taiwan,
	³ Universidad de Kaiserslautern, Kaiserslautern, Germany
	THE EFFECTS OF UNDERCOOLING AND TRANSFORMATION TIME ON MICROSTRUCTURE AND PROPERTIES IN A HIGH STRENGTH SUPERBAINITE STEEL
B1-P-THU-P2-3	Ph.D. Student Jun-yu Tian ¹ , Professor Guang Xu ¹ , Ph.D. Student Hai-jiang Hu ¹ , Ph.D. Student Ming-xing Zhou ¹
	¹ The State Key Laboratory of Refractories and Metallurgy, Wuhan University Of Science And Technology, Wuhan, China
	MAGNETIC BEHAVIOUR OF NANOSTRUCTURED BAINITE AT CRYOGENIC TEMPERATURES
B1-P-THU-P2-4	Dr. Arancha Argüelles ¹ , Dr. Maria F. Barbes ¹ , Dr. Jose I. Espeso ² , <u>Dr. Carlos Garcia-Mateo</u> ³ ¹ Universidad de Oviedo, Oviedo, Spain, ² Universidad de Cantabria, Santander, Spain, 3CENIM-CSIC, Madrid, Spain
	ISOTHERMAL TRANSFORMATION OF NANOSTRUCTURED BAINITE: EFFECT PRIOR MARTENSITE FORMATION
B1-P-THU-P2-5	Mr Miguel A. Santajuana¹, Dr Christophe Mesplont², Dr Thomas Sourmail³, Dr David San Martin¹, Dr Matthias Kuntz⁴, Prof Francisca G. Caballero¹, <u>Dr. Carlos Garcia-Mateo¹</u> ¹CENIM-CSIC, Madrid, Spain, ²Bekaert, Zwevegem, Belgium, ³Asco Industries-CREAS (Research Centre), Hagondange, France, ⁴Robert Bosch GmbH, Germany

	TIME: 13:00–15:00 R00M: F0YER, E1/M1
P2	Thursday September 21, 2017
14	Symposium B.1: Advanced High Strength Steels
	ROLE OF MICROSTRUCTURE IN HYDROGEN EMBRITTLEMENT OF ADVANCED HIGH-STRENGTH STEELS
B1-P-THU-P2-6	Dr. Yuriy Yagodzinskyy¹, Dr. Suvi Papula¹, Dr. Olga Todoshchenko¹, Dr. Klemens Mraczek², Prof. Hannu Hanninen¹
	¹ Aalto University School of Engineering, Espoo, Finland, 2voestalpine Stahl GmbH, Linz, Austria
	STUDY OF DUCTILE DAMAGE EVOLUTION UNDER LOAD-UNLOAD CYCLIC TEST IN A DUAL PHASE STEEL
B1-P-THU-P2-7	MSc. Juan Manuel Anduquia Restrepo¹, MSc. Carlos Alberto Narváez Tovar¹, PhD. Rodolfo Rodríguez Baracaldo¹, PhD. Henry Octavio Cortés Ramos¹ ¹Universidad Nacional de Colombia, Bogotá, Colombia
	FRACTURE TOUGHNESS AND CRACK GROWTH EVALUATION FOR DUAL PHASE STEEL
B1-P-THU-P2-8	Mechanical Engineer Cristian Camilo Pérez Velásquez ¹ , PhD Rodolfo Rodriguez Baracaldo ¹ , Msc Carlos Alberto Narvaez Tovar ¹
	¹ Universidad Nacional De Colombia, Bogotá, Colombia
	MICROSTRUCTURE EVALUATION OF AISI 347 STEEL SAMPLES WELDED BY LASER BEAM WELDING PROCESS
B1-P-THU-P2-9	Juliana Ribeiro Peçanha ^{1,2} , Suzana Bottega Peripolli ^{2,3} , José Brant de Campos ³ , Hector Reynaldo Meneses Costa ¹ , Bianca Ferreira Gomes ² , Leandro Guimarães de Oliveira ²
	¹Centro Federal de Educação Tecnológica Celso Suckow da Fonseca (CEFET/RJ)., Av. Maracanã, 229 - Maracanã, Rio de Janeiro - RJ, 20271-110, Brazil, ²IST Solda, Rua São Francisco Xavier,601, Maracanã, Rio de Janeiro, Brazil, ³Universidade do Estado do Rio de Janeiro, Rua Fonseca Telles 121, São Cristóvão, Rio de Janeiro, RJ, Brasil, CEP: 20940-240., Brazil
	RELATIONSHIPS BETWEEN PHASE MORPHOLOGY EVOLUTION AND ANNEALING VARIABLES IN SUPERDUPLEX STAINLESS STEEL UNS \$32750 AND RELATED MODEL ALLOYS
B1-P-THU-P2-10	<u>Damien Tresallet</u> ¹ , Dr. Hugo Van Landeghem ¹ , Dr. Florent Krajcarz ² , Dr. Catherine Tassin ¹ , Dr. Yves Du Terrail ¹ , Dr. Jean-Denis Mithieux ² , Pr. Muriel Veron ¹
	¹ Univ. Grenoble Alpes, CNRS, Grenoble INP, SIMaP, F-38000 Grenoble, France, ² Aperam Stainless Steel Research Center, Isbergues, France
	THE INFLUENCE OF La AND Ce ADDITION ON INCLUSION MODIFICATION IN As-CAST NIOBIUM MICROALLOYED STEELS
B1-P-THU-P2-11	Ir H. Torkamani ² , Dr. Shahram Raygan ² , Dr. Carlos Garcia-Mateo ¹ , Dr. Jafar Rassizadehghani ² , Ir. Javier Vivas ¹ , Dr. Yahya Palizdar ³ , Dr. David San-Martin¹
	¹ Department of Physical Metallurgy, National Center for Metallurgical Research (CENIM-CSIC), Madrid, Spain, ² School of Metallurgy and Materials Engineering, College of Engineering, University of Tehran, Tehran, Iran, ³ Materials and Energy Research Center, Karaj, Spain
D4 D TIIII D0 40	VISUALIZATION OF HYDROGEN DISTRIBUTION IN STEELS BY UTILIZING IN-SITU SILVER DECORATION TECHNIQUE
B1-P-THU-P2-12	<u>Daisuke Yamasaki</u> ¹, Motomichi Koyama¹, Kaneaki Tsuzaki¹ ¹Kyushu University, Fukuoka city, Japan
D1 D TUIL D2 12	EFFECTS OF FERRITE/MARTENSITE MORPHOLOGY IN DAMAGE EVOLUTION BEHAVIOR OF DUAL-PHASE STEELS
B1-P-THU-P2-13	Arata Shojima¹, Motomichi Koyama¹, Shusaku Takagi², Kaneaki Tsuzaki¹ ¹Kyushu University, Fukuoka City, Japan, ²JFE Steel Corporation, Steel Research Laboratory, , Japan
B1-P-THU-P2-14	EFFECTS OF SOLUTE HYDROGEN ON DEFORMATION-INDUCED HCP MARTENSITE IN AN AUSTENITIC STEEL
DI-F-INO-F2-14	Natsuki Terao¹¹¹Kyushu University, Fukuoka City, Japan
B1-P-THU-P2-15	EFFECT OF Mo-ALLOYING ON HYDROGEN SOLUBILITY AND TRAPPING IN METASTABLE AUSTENITIC STAINLESS STEELS
	Arnaud Macadre ¹ , Yuriy Yagodzinskyy ² , Evgenii Malitckii ² , Hannu Hanninen ² , Setsuo Takaki ^{1,3} ¹ International Institute For Carbon-neutral Energy Research, Fukuoka, Japan, ² Aalto University, Dept. of Mechanical Engineering, Aalto, Finland, ³ Kyushu University, Fukuoka, Japan
N. D	STRUCTURE AND PHYSICAL-MECHANICAL PROPERTIES OF HIGH-STRENGTH CLAD CONSTRUCTIONAL STEELS
B1-P-THU-P2-16	Mrs Evgeniia Putilova ¹ , Mr Sergey Zadvorkin1, Mr Edward Gorkunov ¹ 'The Institute Of Engineering Science, Ras (ural Branch), Ekaterinburg, Russian Federation

		TIME: 13:00-15:00	ROOM: FOYER, E1/M1
P2	Thursday September 2	1, 201 <i>7</i>	
FZ.	Symposium B.1: Advanced High S	Strength Steels	
B1-P-THU-P2-17	ENHANCEMENT OF TENSILE ELONGATION IN AL-Zr ADDED HIS STEELS BY MICROSTRUCTURE CONTROL	GH-Cr ODS	
	Dr. Noriyuki Iwata ¹ , Dr. Sang-hoon Noh ³ , Dr. Yoo-sung Ha ⁴ , ¹ Department of Materials System Engineering, National Institute of Technolom Materials Science and Engineering, National Institute of Technology, Kurum Division, Korea Atomic Energy Research Institute, Daejeon, South Korea, ⁴ Nu Agency, Japan, 5Institute of Advanced Energy, Kyoto University, Japan	ngy, Kurume College, , Japar e College. , Japan. ³ Nuclear	Materials Development
B1-P-THU-P2-18	PROCESSING AND EVALUATION OF FERRITIC-BAINITIC MULTI	-PHASE STEEL	
	Mr. Mohamed Safa¹, Professor Dr. Samir Ibrahim², Professor Dr. Sabbah Ataya² ¹EZDK, Alexandria, Egypt, 2Department of Metallurgy and Materials Enginee Suez University, Suez, Egypt		

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
P2	Thursday September 21, 2017
FZ	Symposium B.4: Advanced properties of SPD-processed metallic materials
B4-P-THU-P2-1	FORMATION OF ULTRAFINE GRAINED STRUCTURE IN A Mg-Al-Zn-Mn ALLOY PROCESSED BY ROTARY SWAGING
	Natalia Martynenko ^{1,2} , Elena Lukyanova ^{1,2} , Vladimir Serebryany ² , Mikhail Gorshenkov ³ , Mikhail Morozov ² , Vladimir Yusupov ² , Sergey Dobatkin ^{1,2} , Yuri Estrin ^{1,4} 1 Laboratory of Hybrid Nanostructured Materials, National University of Science and Technology "MISIS", Moscow, Russian Federation, ² A.A. Baikov Institute of Metallurgy and Materials Science of Russian Academy of Sciences, Moscow, Russian Federation, ³ National University of Science and Technology "MISIS", Moscow, Russian Federation, ⁴ Department of Materials Science and Engineering, Monash University, Melbourne, Australia
	EFFECT OF ECAP ON THE PRECIPITATION EVOLUTION AND MECHANICAL PROPERTIES OF A NEWLY DEVELOPED ALUMINUM ALLOY
B4-P-THU-P2-2	Jahanzaib Malik ¹ , Dr. Bilal Mansoor ² , Wahaz Nasim ¹ , Dr Ibrahim Karaman ¹ , Dr Dinc Erdeniz ³ , Dr David Dunand ³ 'Texas A&M University, College Station, USA, ² Texas A&M University at Qatar, Doha, Qatar, ³ Northwestern University, Evanston, USA
	THERMAL STABILITY OF ULTRA-FINE GRAINED LOW ALLOYED Cu-Cr-Zr ALLOY
B4-P-THU-P2-3	Anna Morozova ¹ , Andrey Belyakov ¹ , Rustam Kaibyshev ¹ 'Belgorod State University, Belgorod, Russian Federation
D/ D TIIII DO /	MICROSTRUCTURE STABILITY OF ULTRAFINE-GRAINED MAGNESIUM ALLOY WE43 AT ELEVATED TEMPERATURE
B4-P-THU-P2-4	Ph.D. Jitka Stráská¹, Ph.D. Peter Minárik¹, Ph.D. Josef Stráský¹, Prof. Miloš Janeček¹¹Charles University, Prague, Czech Republic
D/ D THU DO 5	EFFECT OF DECOMPOSITION ON THE MECHANICAL PROPERTIES OF NANOCRYSTALLINE SUPERSATURATED Cu-Co alloys processed by high-pressure torsion
B4-P-THU-P2-5	Andrea Bachmaier ¹ , Georg Rathmayr ² , Reinhard Pippan ¹ ¹ Erich Schmid Institute of Materials Science, Leoben, Austria, ² microsample, Scharnstein, Austria
	ULTRAFINE-GRAINED LAMINATED METALLIC COMPOSITES PRODUCED BY ARB
B4-P-THU-P2-6	<u>Dr. Heinz-Werner Höppel</u> ¹ , Frank Kümmel ¹ , Prof. Mathias Göken ¹ 1Dept. Materials Science And Engineering, Friedrich-Alexander-Universität Erlangen-nürnberg, Erlangen, Germany
	MECHANICAL PROPERTIES AND MICROSTRUCTURE IN A TWIP STEEL SUBJECTED TO HIGH PRESSURE TORSION
B4-P-THU-P2-7	Ms Marina Abramova ¹ , Mr Nariman Enikeev ¹ , Mr Jung Gi Kim ² , Mr J.B. Seol ³ , Ms Marina Karavaeve ¹ , Mr Ruslan Valiev ¹ , Mr Hyoung Seop Kim ² 'Ufa State Aviation Technical University, Ufa, Russian Federation, ² Department of national science and engineering, pohang university of science and technology, Pohang, Republic of Korea, ³ National Institute of Nanotechnology (NINT), Pohang, Republic of Korea

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
P2	Thursday September 21, 2017
	Symposium B.4: Advanced properties of SPD-processed metallic materials
D/ D TIII D0 0	DAMAGE TOLERANCE OF A SEVERLY PLASTICALLY DEFORMED SUPERELASTIC NITI SHAPE MEMORY ALLOY
B4-P-THU-P2-8	Anton Hohenwarter ¹ , Thomas Leitner ¹ ¹Department of Materials Physics, Montanuniversitaet Leoben, Austria, Leoben, Austria
	HIGH STRENGTH ULTRA-FINE GRAINED AI-Mg ALLOYS VIA PHYSICAL SIMULATION
B4-P-THU-P2-9	Ilchat Sabirov ¹ , Prof. Ruslan Valiev ² , Dr. Nariman Enikeev ² , Dr. Maxim Murashkin ² 'IMDEA Materials Institute, Madrid, Spain, 2Ufa State Aviation Technical University, Ufa, Russia
	PROCESS WINDOW FOR SEVERE PLASTIC DEFORMATION OF A FERRITIC-AUSTENITIC STEEL
B4-P-THU-P2-10	<u>Katharina Schwarz</u> ¹ , Timo Müller ¹ , Anton Hohenwarter ² , Reinhard Pippan ¹ ¹ Erich Schmid Institute of Materials Science, Austrian Academy of Science, Leoben, Austria, ² Department of Materials Physics, University of Leoben, Leoben, Austria
B4-P-THU-P2-11	MICROSTRUCTURAL FEATURES, MECHANICAL AND ELECTRICAL PROPERTIES OF AL-Mg-Zr alloy processed by ECAP-C and Cold Drawing
	Phd Ivan Lomakin ¹ , Dr. Maxim Murashkin ^{1,2} , Dr. Andrey Medvedev ² , Dr. Vil Kazykhanov ² , Professor Ruslan Valiev ^{1,2} 'Saint Petersburg State University, Saint Petersburg, Russian Federation, ² Ufa State Aviation Technical University, Ufa, Russia

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
DO.	Thursday September 21, 2017
P2	Symposium B.7: Hybrid and Metal Organic Framework (MOF) Materials
B7-P-THU-P2-1	INVESTIGATION OF PROMISING MOF MEMBRANES FOR C2H6 SEPARATIONS
	Assoc. Prof. Seda Keskin¹, Cigdem Altintas¹ ¹Koc University, Istanbul, Turkey
	TERAHERTZ MOLECULAR ROTORS AND STRUCTURAL DYNAMICS IN A ZIRCONIUM-BASED METAL-ORGANIC FRAMEWORK
B7-P-THU-P2-2	Matthew Ryder ^{1,2,3} , Dr Ben Van de Voorde ⁵ , Prof. Bartolomeo Civalleri ⁴ , Dr Thomas Bennett ⁶ , Dr Sanghamitra Mukhopadhyay ² , Dr Gianfelice Cinque ³ , Prof. Felix Fernandez-Alonso ² , Prof. Dirk De Vos ⁵ , Dr Svemir Rudić ² , Prof. Jin-Chong Tan ¹ 'University Of Oxford, Oxford, United Kingdom, 'ISIS Neutron & Muon Source Facility, Rutherford Appleton Laboratory, United Kingdom, 'Diamond Light Source, Harwell Campus, United Kingdom, 'University of Turin, Torino, Italy, 5KU Leuven, Leuven, Belgium, 'University of Cambridge, Cambridge, United Kingdom
	REVISITING THE MICROPOROUS AL-MOF (MIL-96): FROM THE STRUCTURE DETERMINATION, SYNTHESIS OF NANOPARTICLES TO THE PROCESSING OF MIXED MATRIX MEMBRANES FOR CO2 CAPTURE
B7-P-THU-P2-3	Marvin Benzaqui ^{1,2} , Dr Renjith Pillai ³ , Virginie Benoit ⁴ , Dr Antoine Tissot ² , Dr Mihail Mihaylov ⁵ , Prof Philip Llewellyn ⁴ , Prof Konstantin Hadjiivanov ⁵ , Prof Guillaume Maurin ³ , Prof Nathalie Steunou ¹ , Dr Christian Serre ² 'Institut Lavoisier de Versailles, Versailles, France, 'Institut des Matériaux Poreux de Paris, Paris, France, 'Institut Charles Gerhardt Montpellier, Montpellier, France, 'Madirel, Aix Marseille University, Marseille, France, 'Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences, Sofia, Bulgaria
	COMPARATIVE STUDY OF TWO NEW ONE-DIMENSIONAL COORDINATION POLYMERS, AIMIII(C204)2(H20)4, WITH DIFFERENT TOPOLOGY
B7-P-THU-P2-4	<u>Professor Malika Hamadène</u> ¹ , PHD student Mohamed Al Amine Benhacine ¹ , PHD Hamza Kherfi ¹ , Professor Sofiane Bouacida ² **Usthb, Algiers, Algeria, **ZUMC, Constantine, Algeria**
	SUPRA-MOLECULAR ASSEMBLY IN THREE MIXED-LIGANDS COBALT(II) COMPLEXES
B7-P-THU-P2-5	Professor Balegroune Fadila ¹ 1Laboratoire Cri-Ther, Faculté de Chimie, USTHB, , Algiers, Algeria
	OPTOCHEMICALLY RESPONSIVE 2D NANOSHEETS OF A 3D METAL-ORGANIC FRAMEWORK (ADVANCED MATERIALS, 2017, DOI: 10.1002/ADMA.201701463)
B7-P-THU-P2-6	Mr. Abhijeet Chaudhari¹, Prof. Jin-Chong Tan¹ ¹University Of Oxford, Oxford, United Kingdom

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P2	Thursday September 2	1, 201 <i>7</i>	
ΓZ	Symposium B.7: Hybrid and Metal Organic Fr	amework (MOF)	Materials
B7-P-THU-P2-7	MODELING DISPERSION INTERACTIONS IN FLEXIBLE METAL- CRITICAL INFLUENCE ON PHASE STABILITY	ORGANIC FRAMEWORI	KS:
	Jelle Wieme ¹ , Kurt Lejaeghere ¹ , Veronique Van Speybroeck ¹ Center For Molecular Modeling, Ghent University, Zwijnaarde, Belgium	(1	
B7-P-THU-P2-8	ATOMIC FORCE MICROSCOPIC NANOINDENTATION STUDY OF FRAMEWORK CRYSTALS AND NANOSHEETS	METAL-ORGANIC	
	Mr Zhixin Zeng¹, Mr Jin-Chong Tan¹ ¹University of Oxford, Oxford, United Kingdom		
B7-P-THU-P2-9	PALLADIUM-BASED CATALYTIC DEVICES VIA MOFS AND ELEC	TROSPINNING	
	Mr Kirill Titov ¹ , Mr Dmitry Eremin ² , Mr Abhijeet Chaudhari ¹ , Prof Jin-Chong Tan ¹		
	¹ University Of Oxford, Oxford, United Kingdom, 2Zelinsky Institute for Organi	c Chemistry, Moscow, Russ	ia

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
D)	Thursday September 21, 2017
ΓZ	Symposium B.8: High Entropy Alloys and Compositionally Complex Alloys
B8-P-THU-P2-1	EVALUATION OF AN ORIGINAL GRADE OF HEA ALLOY FROM ALCRFEMNNI FAMILY
	Julia Olszewska ¹ , Michal Mroz ¹ , Guanzhong He ¹ , Marilyne Mondon ¹ , Prof Anna Fraczkiewicz ¹ ¹ Ecole Des Mines De St Etienne, Saint Etienne, France
DO D THU DO O	EXPERIMENTAL DETERMINATION OF THE ENTROPY OF SINGLE-PHASE HIGH ENTROPY ALLOYS USING DIFFERENTIAL SCANNING CALORIMETRY AT LOW TO HIGH TEMPERATURES
B8-P-THU-P2-2	Sebastian Haas ¹ , M. Sc. Mike Mosbacher ¹ , DrIng. Rainer Völkl ¹ , Prof. DrIng. Uwe Glatzel ¹ **University Bayreuth, Bayreuth, Germany**
DO D THU DO O	PHASE STABILITY AND HIGH TEMPERATURE FRAGILITY OF NOVEL EQUIATOMIC CoCuFeMnNi HIGH-ENTROPY ALLOY
B8-P-THU-P2-3	Michal Mroz ¹ , Anna Fraczkiewicz ¹ ¹ Ecole Des Mines De St Etienne, Saint Etienne, France
	NEW HIGH ENTROPY ALLOYS WITH SUPERIOR CHARACTERISTICS FOR MEDICAL APPLICATIONS
B8-P-THU-P2-4	Doctor Dumitru Mitrica ¹ , Doctor Vasile Soare ¹ , Doctor Daniela Dumitrescu ¹ , Engineer Victoria Soare ¹ , Professor Gabriela Popescu ² , Master of Science Ionut Constantin ¹ , Master of Science Mihai Olaru ¹ , Doctor Mihai Ghita ¹ , Doctor Brandusa Ghiban ² , Doctor Eugeniu Vasile ² 'National R&d Institute For Nonferrous And Rare Metals-imnr, Pantelimon, Romania, ² University POLITEHNICA Bucharest, Bucharest, Romania
	HEAT TREATMENT AND DEFORMABILITY OF AL-Cr-Fe-Mn-Ni-Zr HIGH ENTROPY ALLOYS
B8-P-THU-P2-5	Master of Science Mihai Olaru ¹ , Doctor Vasile Soare ¹ , Doctor Dumitru Mitrica ¹ , Doctor Valentin Dragut ¹ , Doctor Florentin Stoiciu ¹ , Professor Gabriela Popescu ² , Professor Ioan Carcea ³
	¹ National R&d Institute For Nonferrous And Rare Metals-imnr, Pantelimon, Romania, ² University POLITEHNICA Bucharest, Bucharest, Romania, 3Gheorghe Asachi Technical University of Iasi, Iasi, Romania
	EFFECTS OF SOLIDIFICATION CONDITIONS ON MICROSTRUCTURE AND PROPERTIES OF HIGH ENTROPY ALLOYS (HEA) OF CoCrfemnni Family
B8-P-THU-P2-6	Tomasz Stasiak ¹ , Dr Jerzy Latuch ² , Prof. Dariusz Oleszak ² , Prof. Anna Fraczkiewicz ¹
	¹Mines St Etienne, France, St Etienne, France, ²Faculty of Materials Science and Engineering / WUT, Warsaw, Poland EXPERIMENTAL AND THEORETICAL STUDY ON MULTICOMPONENT AL_xCu_yFeNiCrCo HIGH
B8-P-THU-P2-7	ENTROPYALLOYS
	Dr Katarzyna Matusiak ¹ , Dr Jakub Cieslak ¹ , Dr Katarzyna Berent ² , Dr Marianna Marciszko ² 'AGH University of Science and Technology, Faculty of Physics and Applied Computer Science, Al. Mickiewicza 30, 30-059 Krakow, Poland, ² AGH University of Science and Technology, Academic Centre for Materials and Nanotechnology, Al. Mickiewicza 30, 30-059 Krakow, Poland

	TIME: 13:00–15:00 ROOM: FOYER, E1/M1
P2	Thursday September 21, 2017
ГД	Symposium B.8: High Entropy Alloys and Compositionally Complex Alloys
B8-P-THU-P2-8	MICROSTRUCTURE AND MECHANICAL PROPERTIES OF Fe-Cr-V-Mn BASED REDUCED-ACTIVATION HIGH ENTROPY ALLOYS FOR FUSION REACTOR APPLICATIONS
	<u>Dr Young-bum Chun</u> ¹ , Dr Gyeong Su Shin ¹ , Dr Yi-Hyun Park ² 'Nuclear Materials Development Divsion, Korea Atomic Energy Research Institute, Deajeon, South Korea, ² National Fusion Research Institute, Daejeon, South Korea
	PHASE STABILITY OF THE Fe-Cr-Mn-Ni ALLOYS FROM FIRST PRINCIPLES
B8-P-THU-P2-9	Mark Fedorov ¹ , Dr. Jan Wróbel ¹ , Prof. Duc Nguyen-Manh ² , Prof. Krzysztof Kurzydłowski ¹ ¹ Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland, ² Culham Centre for Fusion Energy, Abingdon, United Kingdom
	A NOVEL PRODUCTION APPROACH FOR FeNiCoCu HIGH ENTROPY ALLOYS
B8-P-THU-P2-10	Research Assistant Burak Kucukelyas ^{1,2} , Research Assistant Serzat Safaltin ¹ , Assist. Prof. Dr. Ebru Devrim Sam Parmak ² , Prof. Dr. Sebahattin Gurmen ¹ 'Istanbul Technical University, Department of Metallurgical and Materials Engineering, İstanbul, Turkey, ² Bursa Technical University, Department of Metallurgical and Materials Engineering, Bursa, Turkey
	MICROSTRUCTURE AND TEXTURE EVOLUTION DURING SEVERE PLASTIC DEFORMATION OF CrMnFeConi HIGH-ENTROPY ALLOY
B8-P-THU-P2-11	Prof. Dr. Werner Skrotzki ¹ , Aurimas Pukenas ¹ , Bertalan Joni ² , Eva Odor ² , Prof. Dr. Tamas Ungar ^{2,3} , Dr. Anton Hohenwarter ⁴ , Prof. Dr. Reinhard Pippan ⁴ , Prof. Dr. Easo George ^{5,6}
	¹TU Dresden, Dresden, Germany, ²Eötvös University Budapest, Budapest, Hungary, ³University of Manchester, Manchester, UK, ^Montanuniversität Leoben, Leoben, Austria, ⁵Oak Ridge National Laboratory, Oak Ridge, USA, ⁵University of Tennessee, Knoxville, USA
	PRECIPITATION BEHAVIOUR OF CrmnFeNi HIGH-ENTROPY ALLOY UNDER NICKEL ION IRRADIATION
B8-P-THU-P2-12	Mr Antonio Fernandez-Caballero ¹ , Dr Edward Pickering ¹ , Prof Grace Burke ¹ , Dr Michael Gorley ² , Dr Duc Nguyen-Manh ² , Prof Paul Mummery ¹
	¹ The University of Manchester, Manchester, United Kingdom, ² CCFE, United Kingdom Atomic Energy Authority, Abingdon, United Kingdom
	COMPARISON OF MECHANICAL PROPERTIES OF CrMnFeCoN, Cu AND TI $_{10}$ Zr $_{21}$ HF $_{15}$ NB $_{21}$ Ta $_{10}$ HIGH ENTROPY ALLOYS WITH THE DIFFERENT CRYSTAL LATTICE IN THE TEMPERATURE RANGE OF 4.2 – 293 K.
B8-P-THU-P2-13	Mr Yuriy Shapovalov ¹ , PhD Elena Tabachnikova ¹ , PhD Aleksey Podolskiy ¹ , Dr Viktor Gorban ² , Dr Sergey Firstov ²
	¹ B. Verkin Institute for Low Temperature Physics and Engineering of the NAS of Ukraine, 47 Nauky Ave., Kharkiv, Ukraine, ² Frantsevich Institute for Problems of Materials Science of the NAS of Ukraine, ³ Krzhizha-novsky Str., Kyiv-142, Ukraine

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	TIME: 13:00-15:00 ROOM: FOYER, E1/M1	
Thursday September 21, 2017		
	Symposium B.9: Bulk Metallic Glasses	
B9-P-THU-P2-1	CALIBRATION OF GLASS PAD VISCOSITY IN HOT EXTRUSION	
	<u>Dr Jonghun Yoon</u> ¹ , Youngnam Song ¹ , Dr Sung Hoon Kang ² , Dr Howon Lee ² 'Hanyang University Erica, Ansan, Republic of Korea, ² Korea Insttute of Materials Science, Changwon, Republic of Korea	
DO D THU DO C	A STRATEGY FOR DESIGNING BULK METALLIC GLASS COMPOSITES WITH EXCELLENT WORK-HARDENING AND LARGE TENSILE DUCTILITY	
B9-P-THU-P2-2	Haifeng Wang ¹ 'State Key Laboratory Of Solidification Processing, Northwestern Polytechnical University, Xi'an, China	
	MAGNETIC PROPERTIES OF U-BASED AMORPHOUS ALLOYS	
B9-P-THU-P2-3	Pei Zhang¹, Huogen Huang¹, Haibo Ke¹¹China Academy Of Engineering Physics, , China	
	Fe-BASED GLASSY COMPOSITE PRODUCTION BY ARC MELTING	
B9-P-THU-P2-4	Hamdi Ekici ¹ , Ozen Gursoy ¹ , Eray Erzi ¹ , <u>Derya Dispinar</u> ¹ 'Istanbul University	
	IMPROVEMENT OF THE MECHANICAL PROPERTIES OF Cu50Zr45Al5 BULK METALLIC GLASSES BY ADDITION OF CRYSTALLINE PARTICLES	
B9-P-THU-P2-5	Doctor Engineer Sandrine Cardinal ¹ , Professor Jean-Marc Pelletier ¹ , Mr Florian Mercier ¹ , Dr Jichao Qiao ² , Dr Guong Xie ³ , Dr Florent Delmas ¹ 'Insa Lyon, Villeurbanne, France, 2School of mechanics, Xi'an, China, 3IMR, Sendai, Japan	
	MOLECULAR DYNAMICS SIMULATIONS ON THE BAUSCHINGER EFFECT IN Cu60Zr40 COMPUTER METALLIC GLASS	
B9-P-THU-P2-6	PhD Student Pablo Palomino Rico¹ 'University of Ioannina, Ioannina, Greece	

TIME: 13:00-15:00

ROOM: FOYER, E1/M1

DO	Thursday September 21, 2017
P2 —	Symposium C.1-II: Coatings and Surface Modification Techniques / Part 2
C1-II-P-THU-P2-1	RESEARCH ON SURFACE WETTABILITY OF COPPER AND COPPER-BASED ALLOYS FOR ANTIMICROBIAL SURFACES
	PhD Monika Walkowicz¹, PhD Piotr Osuch¹, Prof. Beata Smyrak¹, Prof. Andrzej Mamala¹, Prof. Andrzej Mamala¹, Prof. Andeusz Knych¹ 'AGH University of Science and Technology, Faculty of Non-Ferrous Metals, Department of Metal Working and Physical Metallurgy of Non-Ferrous Metals, Krakow, Poland
	Zn-ZnO CORE-SHELL NANOPARTICLES DEPOSITED ONTO TANTALUM NANOSTRUCTURES
C1-II-P-THU-P2-2	Joana Oliveira ¹ , <u>Dr. Sebastian Calderon</u> ^{1,3} , C.F Almeida Alves ¹ , Prof. Dr. P. J. Ferreira ^{2,3} , Prof. Dr. S. Carvalho ¹ 'University of Minho, Department of Physics, Campus of Azurém, 4800-058, Guimaraes, Portugal, ² Materials Science and Engineering Program, The University of Texas at Austin, Austin, Texas 78712, USA., USA, ³ INL - International Iberian Nanotechnology Laboratory, Av. Mestre José Veiga s/n, 4715-330, Braga, Portugal
	MAG-CW WELDING PROCESS WITH ADDITION OF POWDER OBTAINED FROM COATED ELECTRODE OK 8358
C1-II-P-THU-P2-3	Undergraduate João Lucas Jacob Araujo ¹ , Undergraduate Rafael Barradas do Nascimento ¹ , Master Mário Viana Medeiros Filho ¹ , Doctor José Francisco Reis Sobrinho ¹ 'Instituto Federal de Ciência e Tecnologia do Piauí, Teresina, Brazil
	STUDY ON THE ELECTROCHEMICAL CHARACTERIZATION OF DIMENSIONALLY STABLE ANODE FOR ELECTROPLATING APPLICATIONS
C1-II-P-THU-P2-4	Ph. D. Seong Ho Son ¹ , Sung Cheol Park ¹ , Jin Yeon Lee ¹ , Ph. D. Yong Hwan Kim ¹ 'Korea Institute of Industrial Technology, , Republic of Korea
	SURFACE PATTERNING TO IMPROVE JOINT STRENGTH OF SIC AND SIC/SIC
C1-II-P-THU-P2-5	Dr Valentina Casalegno ¹ , Prof Monica Ferraris ¹ , Prof Milena Salvo ¹ , Dr Espedito Vassallo ² , Matteo Pedroni ² , Christian Wilhelmi ³ , Matthias Funke ³ , Manuela Suess ³ 'Politecnico Di Torino-disat, Torino, Italy, ² CNR, Istituto di Fisica del Plasma "P. Caldirola", Milan, Italy, ³ Airbus DS GmbH, Space Systems, Mechanical Products and Engineering GE, D-88039 Friedrichshafen, Germany
	REMOVABLE PARYLENE BASED BILAYER FOR BARRIER CORROSION PROTECTION OF METALLIC ARCHAEOLOGICAL ARTEFACTS
C1-II-P-THU-P2-6	Lucie Blahova ¹ , Jakub Horak ¹ , Radek Prikryl ² , Frantisek Krcma ¹ **Brno University of Technology, Faculty of Chemistry, Institute of Physical and Applied Chemistry, Purkynova 118, 61200, Brno, Czech Republic, **Brno University of Technology, Faculty of Chemistry, Materials Research Centre, Purkynova 118, 61200, Brno, Czech Republic
	ZnO AS ANTIREFLECTIVE COATING FOR THERMOCHROMIC VO2 FILMS
C1-II-P-THU-P2-7	Mr E. Gagaoudakis ^{1,2} , Dr V. Binas ^{1,2,3} , Mr G. Michail ¹ , Mrs D. Katerinopoulou ^{1,2} , <u>Dr E. Aperathitis</u> ¹ , Prof. G. Kiriakidis ^{1,2,3} "IESL / FORTH, Heraklion/Crete, Greece, ² Univerity of Crete/Physics Dpt, Heraklion/Crete, Greece, ³ Crete Center for Quantum Complexity and Nanotechnology, Department of Physics, University of Crete, Heraklion/Crete, Greece
C1-II-P-THU-P2-8	THE EFFECT OF IRIDIUM ON THE PROPERTIES OF ZINC OXIDE FILMS Ms Maria Papadaki ^{1,2} , Mr Athanasios Kostopoulos ¹ , Ms Maria Androulidaki ¹ , Ms Katerina Tsagaraki ¹ ,
51 II 1 - III 5-F 2-0	Dr Mircea Modreanu ³ , Professor George Kiriakidis ^{1,2} , Dr Elias Aperathitis ¹ 1FORTH/IESL, Heraklion, Greece, 2Physics Dept., Crete University, Heraklion, Greece, 3Tyndall National Institute, Cork, Ireland
04 II D 7111 72 7	INFLUENCE OF MODE OF ELECTRODEPOSITION, GRAIN SIZE ON MECHANICAL PROPERTICE OF ELECTRODEPOSITED NANOCRYSTALINE NICKEL COATINGS
C1-II-P-THU-P2-9	Eng. Cezary Dziekoński¹, Phd Dariusz Jarząbek¹, Msc Wojciech Dera¹¹¹Institute of Fundamental Technological Research, Polish Academy of Sciences, Warsaw, Poland
	STRUCTURE AND PROPERTIES OF THE SOFT MAGNETIC Fe-Zr-N NANOFILMS WITH ENHANCED MECHANICAL CHARACTERISTICS
C1-II-P- THU-P2-10	Prof. Elena Sheftel ¹ , <u>Dr. Philipp Kiryukhantsev-Korneev</u> ² , Valentin Tedzhetov ¹ , Dr. Evgeny Harin ¹ , Prof. Evgeny Levashov ² , Galina Usmanova ¹ , Prof. Olga Zhigalina ³ ¹ Institute of Metallurgy and Material Science, RAS, Moscow, Russian Federation, 2National University Of Science And Technology Misis, Moscow, Russian Federation, 3Shubnikov Institute of Crystallography, RAS, Moscow, Russian Federation
	EMPLOYMENT OF THE OPERATIONAL CENTRIFUGAL FORCES OF THE TURBINE TO RESIST THE CALCIUM-MAGNESIUM-ALUMNINOSILICATES INFILTRATION IN A EB-PVD THERMAL BARRIER COATING: A NUMERICAL SIMULATION
C1-II-P-THU-P2-11	student Vasileios Katranidis ¹ , Professor of Coatings Technology John Nicholls ² , Dr Christine Chalk ² ¹ University Of Surrey, Chemical and process Engineering, Guildford, United Kingdom, ² University of Cranfield, Surface Engineering & Nanotechnology Institute, Cranfield, United Kingdom

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
P2	Thursday September 21, 2017
12	Symposium C.1-II: Coatings and Surface Modification Techniques / Part 2
C1-II-P- THU-P2-12	SILICIDE COATING ON Ti-46AL-8TA (AT.%) — ASSESSMENT OF GROWTH MECHANISM THROUGH DIFFUSION-COUPLE EXPERIMENTS
	Katarzyna Rubacha ¹ , Elzbieta Godlewska ¹ , Krzysztof Mars ¹ , Marzena Mitoraj-Krolikowska ¹ 'AGH University Of Science And Technology, Krakow, Poland
C1-II-P-	THE INFLUENCE OF THE PHOSPHOROUS CONTENT AND HEAT TREATMENT ON THE NANO-MICRO- STRUCTURE, THICKNESS AND MICRO-HARDNESS OF ELECTROLESS Ni-P COATINGS ON STEEL
THU-P2-13	Professor George Kaptay ¹ , Mr Máté Czagány ¹ , Dr Peter Baumli ¹ ¹ University Of Miskolc, Miskolc, Hungary
C1_II_D_	CHARACTERIZATION OF YB3+ DOPED Y203 THIN FILMS PREPARED BY ELECTRON BEAM EVAPORATION METHOD
C1-II-P- THU-P2-14	Msc Fatma Ünal ¹ , Msc Elif Emil ¹ , Prof.Dr Sebahattin Gürmen ¹ , Prof.Dr Kürşat Kazmanlı ¹ , Prof.Dr Mustafa Ürgen ¹ 'Istanbul Technical University, Istanbul, Turkey
04 11 0	ENHANCED PHOTOCATALYTIC ACTIVITY OF TITANIUM DIOXIDE PHOTONIC CRYSTALS MODIFIED WITH PHOTODEPOSITED PLATINUM NANOPARTICLES
C1-II-P- THU-P2-15	M.Sc. Joanna Ginter ¹ , M.Sc. Kaja Spilarewicz-Stanek ¹ , Dr Aneta Kisielewska ¹ , Prof. Ireneusz Piwoński ¹ 'University of Lodz, Faculty of Chemistry, Department of Materials Technology and Chemistry, Lodz, Poland
C1-II-P-	TUNABLE WETTABILITY OF THIN POLYMER FILMS ON MICROSTRUCTURED SILICON SURFACES
THU-P2-16	Maria Kanidi ¹ , Aris Papagiannopoulos ¹ , Athanasios Skandalis ¹ , Stergios Pispas ¹ , Maria Kandyla ¹ 'National Hellenic Research Foundation, Theoretical and Physical Chemistry Institute, Athens, Greece
C1-II-P-	THE ROLE OF OSTWALD RIPENING AND COALESCENCE IN PHOTOCATALYTIC GROWTH OF SILVER NANOPARTICLES ON TITANIUM DIOXIDE COATINGS
THU-P2-17	MSc Kaja Spilarewicz-Stanek ¹ , PhD Aneta Kisielewska ¹ , Sc. D. Ireneusz Piwoński ¹ ¹ University Of Lodz, Faculty Of Chemistry, Department Of Materials Technology And Chemistry, Łódź, Poland
	EFFECT OF THE PREFERRED ORIENTATION ON THE ELECTROCHROMIC PROPERTIES OF TUNGSTEN OXIDE COATINGS GROWN BY A LPCVD SYSTEM
C1-II-P- THU-P2-18	<u>Dr Dimitrios Louloudakis</u> ^{1,2} , Dr Dimitra Vernardou ^{1,3} , Dr Giorgos Papadimitropoulos ⁴ , Dr Dimitris Davazoglou ⁴ , Prof Emmanouel Koudoumas ^{1,3}
1110-72-10	¹ Center of Materials Technology and Photonics, School of Applied Technology, Technological Educational Institute of Crete, 710 04, Heraklion, Greece, ² Department of Physics, University of Crete 711 00, Heraklion, Greece, ² Department of Electrical Engineering, School of Applied Technology, Technological Educational Institute of Crete, 710 04, Heraklion, Greece, ⁴ NCSR "Demokritos", Institute of Nanoscience and Nanotechnology, P.O. Box 60228, 15310, Agia Paraskevi, Athens, Greece
01 0	DYNAMIC WETTABILITY CONTROL THROUGH STRETCHING OF BILAYER POLYMER FILMS
C1-II-P- THU-P2-19	Catalin Mihai Balan ^{1,2} , Vincent Senez ¹ , <u>Alexis Vlandas</u> ¹ ¹ BioMEMS, Univ. Lille, CNRS, ISEN, UMR 8520 - IEMN, Lille, France, ² University of Southampton Waterfront Campus, Southampton, United Kingdom
	SILVER/HYDROXYAPATITE HYBRID COATINGS ON Ti-6AI-4V SURFACES BY SOL-GEL METHOD
C1-II-P- THU-P2-20	Burak Dikici ¹ , Serap Gungor Koc ² , Mehmet Topuz ² , Mitsuo Niinomi ³ , Masaaki Nakai ⁴ 'Ataturk University, Department of Metallurgical and Materials Engineering, Erzurum 25240, Turkey, ² Yuzuncu Yil University, Department of Mechanical Engineering, Van 65080, Turkey, ³ Tohoku University, Institute for Materials Research, Sendai, Miyagi 980-8577, Japan, 4Kindai University, Department of Mechanical Engineering, Higashiosaka, Osaka 577-8502, Japan

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
P2	Thursday September 21, 2017
	Symposium C.3: Powder routes: from synthesis to processing
C3-P-THU-P2-1	PROCESSING AND VIBRATIONAL PROPERTIES OF LANTHANIDE GERMANATES
	<u>Dr Anderson Dias</u> ¹ , Pamela Coelho ¹ , Roberto Moreira ² ¹Federal University Of Ouro Preto, Ouro Preto, Brazil, ²Federal University of Minas Gerais, Belo Horizonte, Brazil
	FABRICATION OF POROUS TITANIUM BY METAL INJECTION MOLDING USING POLYSTYRENE
C3-P-THU-P2-2	Dr. Wonsik Lee ¹ , Graduate Student Kyungwook Kim ¹ , ² , Dr. Kyou-Hyun Kim ¹ , Mr. Jin Man Jang ¹ , Dr. Yong-Dae Kim ¹ ¹ Korea Institute of Industrial Technology, Incheon, South Korea, ² Korea University, Seoul, South Korea
	NANOCRYSTALLINE NIAL INTERMETALLIC ALLOY PRODUCED BY MECHANICAL ALLOYING AND HOT-PRESSING CONSOLIDATION
C3-P-THU-P2-3	<u>Dr Marek Krasnowski</u> ¹ , Dr Stanislaw Gierlotka ² , Prof Tadeusz Kulik ¹ ¹ Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland, ² Institute of High Pressure Physics, Polish Academy of Sciences, Warsaw, Poland
00 D TIIII D0 /	MORPHOLOGY CONTROL OF AG PARTICLES ELECTROCHEMICALLY RECOVERED FROM C-SI PV CELL BY CHANGING CURRENT DENSITY
C3-P-THU-P2-4	<u>Dr. Jin-seok Lee</u> ¹ , Dr. Young-Soo Ahn ¹ , Dr. Gi-Hwan Kang ¹ 'Korea Institute Of Energy Research, Daejeon, Republic of Korea
	FABRICATION TECHNOLOGIES OF OPEN CELLED POROUS TITANIUM USING POWDER INJECTION MOLDING
C3-P-THU-P2-5	Mr Jin Man Janq ¹ , Mr Kyoung-Wook Kim ¹ , Doctor Kyou-Hyum Kim ¹ , Doctor Yong-Dae Kim ¹ , Doctor Wonsik Lee ¹ , Mr. Yong-In Kim ¹ **Korea Institute Of Industrial Technology, Incheon, Korea**
<i>T</i>	HIGH-VOLTAGE CONSOLIDATION OF TUNGSTEN HEAVY ALLOYS POWDERS
C3-P-THU-P2-6	<u>Prof. Evgeny Grigoryev</u> ¹ , Ms. Natalia Ermakova ¹ , Mr. Sergey Bashlykov ¹ , Prof. Vladimir Golstev ¹ 'NRNU MEPhl, Moscow, Russian Federation
	MICROSTRUCTURAL INVESTIGATIONS OF NITI MATERIALS OBTAINED BY MECHANICAL ALLOYING AND SPARK PLASMA SINTERING
C3-P-THU-P2-7	Dr. Eng. Diana Cirstea ^{1,2} , Dr. Eng. Magdalena Lungu ¹ , Dr. Felicia Tolea ³ , Dr. Gabriela Sbarcea ¹ , Dr Anatoly, M Balagurov ⁴ , Eng. Vasile Cirstea ² 'National Institute for Research and Development in Electrical Engineering, Bucharest, Romania, ² Research and Development Center for design and optimization of technological processes, Bucharest, Romania, ³ National Institute for Materials Physics, Magurete, Romania, ⁴ Joint Institute for Nuclear Research Frank Laboratory of Neutron Physics, Dubna, Russia
	GRADIENT STRUCTURES IN MATERIALS AS A RESULT HIGH-VOLTAGE CONSOLIDATION POWDER
C3-P-THU-P2-8	Prof. Evgeny Grigoryev ¹ , Mr. Artem Yudin ¹ , Mr. Sergey Bashlyikov ¹ 'NRNU MEPhl, Moscow, Russian Federation
	SPARK PLASMA SINTERING OF A TIAL ALLOY: FROM THE DEVELOPMENT OF A NUMERICAL TOOL TO THE FABRICATION OF COMPLEX SHAPES
C3-P-THU-P2-9	M. David Martins ¹ , Miss Fanny Grumbach ¹ , Dr Charles Maniere ¹ , Dr Pierre Sallot ² , Prof Katia Mocellin ³ , Prof Michel Bellet ³ , Dr Claude Estournes ¹ 1 CIRIMAT, Toulouse, France, SAFRAN CRT, Magny-les-Hameaux, France, CEMEF Mines ParisTech, Sophia-Antipolis, France
	LASER POWER INFLUENCE ON RAMAN SPECTRA OF ZnO(CO) NANOPARTICLES
C3-P-THU-P2-10	PhD Branka Hadžić ¹ , PhD Nebojša Romčević ¹ , PhD Maja Romčević ¹ , PhD Martina Gilić ¹ , PhD Jelena Trajić ¹ , PhD Dušanka Stojanović ¹ *Institute Of Physics, University of Belgrade, Belgrade, Serbia
	MECHANICAL PROPERTIES OF CRYOMILLED AND SPARK PLASMA SINTERED TITANIUM
C3-P-THU-P2-11	<u>Jiří Kozlík</u> ¹ , Hanka Becker ² , Max Hoppe ² , Josef Stráský ¹ , Ilya Ibragimov ¹ , Miloš Janeček ¹ ¹ Charles University, Department of Physics of Materials, Prague, Czech Republic, ² TU Bergakademie Freiberg, Institute of Materials Science, Freiberg, Germany
00 P TIII TO 10	MECHANICAL ACTIVATION OF THE NIO/AL ALUMINOTHERMIC SYSTEM BY HIGH-ENERGY BALL MILLING AND ITS EFFECT ON COMPOSITES SYNTHESIS BY SHS
C3-P-THU-P2-12	Ms Hafida Boutefnouchet 1, Dr Caroline Curfs², Dr Dominique Vrel³ ¹University Of Annaba - LMGM, Annaba, Algeria, ²ESRF, Grenoble, France, ³CNRS, LSPM, Paris, France

Thursday September 21, 2017		
Symposium C.3: Powder routes: from sy	nthesis to process	sing
TUNING THE MAGNETIC BEHAVIOR OF ULTRALIGHT Fe-OXIDE FOAMS BY Mn ADDITION		
<u>Dr Pau Solsona</u> 1, PhD Yuping Feng¹, Dr Jordina Fornell¹, Professor Maria Dolors Baró¹, Professor Santiago Suriñach¹, Dr Eva Pellicer¹, Professor Jordi Sort²		
niversitat Autònoma de Barcelona, Departament de física, E-08193 Bell CREA, Pg. Lluís Companys 23, E-08010 Barcelona, Spain	aterra, Cerdanyola del Vallè	s, Spain,
ADDITION EFFECT ON QUASICRYSTALLINE PHASE FORM, ECHANICALLY ALLOYED POWDER	ATION IN Al-Cu-Fe	
ikolaj Mitka ¹ , Anna Góral ¹ , Lidia Lityńska-Dobrzyńska ¹ Institute of Metallurgy and Materials Science Polish Academy of Sciences	, Cracow, Poland	
r	Symposium C.3: Powder routes: from sy NING THE MAGNETIC BEHAVIOR OF ULTRALIGHT Fe-OXID Pau Solsona 1, PhD Yuping Feng 1, Dr Jordina Fornell 1, Dr Eva Pellicer 1, Professor Santiago Suriñach 1, Dr Eva Pellicer 1, Professor iversitat Autònoma de Barcelona, Departament de física, E-08193 Bello REA, Pg. Lluís Companys 23, E-08010 Barcelona, Spain ADDITION EFFECT ON QUASICRYSTALLINE PHASE FORM, CHANICALLY ALLOYED POWDER kolaj Mitka 1, Anna Góral 1, Lidia Lityńska-Dobrzyńska 1	Symposium C.3: Powder routes: from synthesis to process NING THE MAGNETIC BEHAVIOR OF ULTRALIGHT Fe-OXIDE FOAMS BY Mn ADDI Pau Solsona 1, PhD Yuping Feng 1, Dr Jordina Fornell 1, Professor Maria Dolo ofessor Santiago Suriñach 1, Dr Eva Pellicer 1, Professor Jordi Sort 2 iversitat Autònoma de Barcelona, Departament de física, E-08193 Bellaterra, Cerdanyola del Vall REA, Pg. Lluís Companys 23, E-08010 Barcelona, Spain ADDITION EFFECT ON QUASICRYSTALLINE PHASE FORMATION IN Al-Cu-Fe iCHANICALLY ALLOYED POWDER

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1	
D2	Thursday September 21, 2017	
Symposium C.4: Additive Manufacturing		
	THICKNESS DEPENDENT FATIGUE PROPERTIES OF ADDITIVE MANUFACTURED TIGAL4V WITH AS-BUILT SURFACE	
C4-P-THU-P2-1	M.Sc. Magnus Kahlin ^{1,2} , Dr Torsten Sjögren ⁴ , Dr Hans Ansell ^{1,3} , Dr Johan Moverare ²	
	¹ Saab AB, Aeronautics, Linköping, Sweden, ² Division of Engineering Materials, Linköping University, Linköping, Sweden, ³ Division of Solid Mechanics, Linköping University, Linköping, Sweden, ⁴ RISE, Research Institute of Sweden, Borås, Sweden	
	H13/TiB2 COMPOSITE PROCESSED BY SELECTIVE LASER MELTING TECHNOLOGY	
C4-P-THU-P2-2	<u>Dr Dariusz Grzesiak</u> ¹, Dr Marta Krawczyk¹, Dr Bandar AlMangour²	
	¹ West Pomeranian University of Technology Szczecin, Szczecin, Poland, ² Harvard University, Cambridge, USA	
	THE EFFECT OF PROCESS PARAMETERS ON MICROSTRUCTURE, POROSITY AND DEFECTS DURING SELECTIVE LASER MELTING OF INCONEL 718 MATERIAL	
C4-P-THU-P2-3	Mr. Konstantinos Georgilas ^{1,2} , Mr Utkarsha Ankalkhope³, Dr Mehmet E. Kartal², Dr Raja Khan³	
	¹ National Structural Integrity Research Centre, Cambridge, United Kingdom, ² School of Engineering, University of Aberdeen, Aberdeen, United Kingdom, ³ TWI Ltd., Cambridge, United Kingdom	
	FRACTURE MECHANISMS OF ALSi10Mg PARTS PRODUCED BY SELECTIVE LASER MELTING: Influence of Si precipitates and al cell size	
C4-P-THU-P2-4	Engineer Jocelyn Delahaye ¹ , Doctor Engineer Anne Mertens ¹ , Engineer Olivier Dedry ¹ , Engineer Olivier Rigo ² , Professor Doctor Bénédicte Vertruyen ³ , Professor Doctor Engineer Jacqueline Lecomte-Beckers ¹	
	¹ University of Liège, A&M Department, Metallic Materials Science Unit, Liège, Belgium, ² Sirris Research Center, Liège, Belgium, ³ University of Liège, LCIS-GreenMat, Department of Chemistry, Liège, Belgium	
0/ D TIIII D0 F	INVESTIGATION INTO THE PARAMETERS AFFECTING FILTER CAKES PRODUCED DURING FILTRATION PROCESS	
C4-P-THU-P2-5	Ms Bornia Benouis ¹ , Mr Abdallah Hafsaoui ¹	
	¹LVRM, Department of Mining. University Of Badji Mokhtar- Annaba, Annaba, Algeria	
	ULTRA-HIGH RESOLUTION ELECTROHYDRODYNAMIC AM TECHNIQUE WITH SUPERIOR PRINTING SPEED	
C4-P-THU-P2-6	MSc levgenii Liashenko ^{1,2} , Dr. Andreu Cabot ^{1,3} , Dr. Joan Rosell Llompart ^{2,3}	
	¹Institut de Recerca en Energia de Catalunya, Barcelona, Spain, ²Universitat Rovira i Virgili, Tarragona, Spain, ³ICREA - the Catalan Institution for Research and Advanced Studies, Barcelona, Spain	
C4-P-THU-P2-7	INFLUENCE OF THE PARTICLE SIZE DISTRIBUTION ON SURFACE QUALITY AND MECHANICAL PROPERTIES OF SLM PROCESSED Co-Cr Parts	
	Marta Krawczyk¹, Darek Grzesiak¹ ¹West Pomeranian University Of Technology, Szczecin, Szczecin, Poland	
	INTERFACE QUALITY INFLUENCE IN METAL-POLYMER PARTS PRODUCED BY ADDITIVE MANUFACTURING	
C4-P-THU-P2-8	Dr. André Cavaleiro ¹ , Diogo Fula ¹ , Dr. Margarida Machado ¹ , Prof. Rui Neto ^{1,2} , Prof. Ana Reis ^{1,2}	
	¹ INEGI, Instituto de Ciência e Inovação em Eng. Mecânica e Eng. Industrial, Porto, Portugal, ² FEUP, Faculdade de Engenharia da Universidade do Porto, Porto, Portugal	

TIME: 13:00-15:00 R00M: F0YER, E1/M1
Thursday September 21, 2017
Symposium C.4: Additive Manufacturing
AN EXPERIMENTAL APPROACH FOR ADDITIVE MANUFACTURING OF GYPSUM PLASTER PASTES
Rui Soares ¹ , Margarida Machado ¹ , André J. Cavaleiro ¹ , Rui Neto ^{1,2} , Abílio Jesus ^{1,2} , Ana Reis ^{1,2} ¹ INEGI - Institute of Science and Innovation in Mechanical and Industrial Engineering, Porto, Portugal, ² FEUP - Faculty of Engineering of University of Porto, Portugal
INFLUENCE OF PROCESS PARAMETERS ON PROPERTIES AND MICROSTRUCTURE OF CU-ALLOY PARTS FABRICATED BY LASER SINTERING
<u>Eric Bojestig</u> ¹ , Prof. Lars Nyborg ¹ , Prof. Eduard Hryha ¹ ¹ Chalmers University of Technology, Gothenborg (Göteborg), Sweden
CORROSION BEHAVIOR OF ALLOY 718 MANUFACTURED BY DIFFERENT PROCESSES
Dr. Teresa Guraya ¹ , Dr. Pello Jimbert ¹ , Dr. Roberto Fernandez-Martinez ¹ , Dr. Aitzol Lamikiz ² , Dr. Alberto Etxebarria ³ ¹ University Of The Basque Country, Bilbao, Spain, ² University Of The Basque Country, Bilbao, Spain, ³ Lortek S. Coop., Orditzia, Soain
DESIGN AND FABRICATION OF 3D PRINTED DRUG DELIVERY SYSTEMS
<u>Tiffany Tang</u> ^{1,2} , Dr. Tara Schiller ¹ , Professor Tony McNally ¹ , Professor George Simon ² ¹ Warwick Manufacturing Group, University Of Warwick, Coventry, United Kingdom, ² Monash University, Clayton, Australia
DESIGNING A NOVEL Fe-Ni-AL MARAGING STEEL FOR LASER METAL DEPOSITION EXPLOITING INTRINSIC HEAT TREATMENT
<u>Philipp Kürnsteiner</u> ¹ , Markus Benjamin Wilms ² , Andreas Weisheit ² , Pere Barriobero-Vila ³ , Eric Aimé Jägle ¹ , Dierk Raabe ¹
¹ Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf, Germany, ² Fraunhofer-Institut für Lasertechnik, Aachen, Germany, ³ Vienna University of Technology, Vienna, Austria
CORROSION BEHAVIOR OF ALLOY 718 MANUFACTURED BY AM PROCESSES
Dr. Teresa Guraya ¹ , Dr. Peio Jimbert ¹ , Dr. Roberto Fernandez-Martinez ¹ , Dr. Aitzol Lamikiz ¹ , Dr. Alberto Echeberria ² , Dr. Joseph Buhagiar ³ **University Of The Basque Country, Bilbao, Spain, **Lortek S.Coop., Orditzia, Spain, **University of Malta, Msida, Malta** **Inversity Of The Basque Country, Bilbao, Spain, **Lortek S.Coop., Orditzia, Spain, **University of Malta, Msida, Malta** **Inversity Of The Basque Country, Bilbao, Spain, **Lortek S.Coop., Orditzia, Spain, **University of Malta, Msida, Malta** **Inversity Of The Basque Country, Bilbao, Spain, **Lortek S.Coop., Orditzia, Spain, **University of Malta, Msida, Malta** **Inversity Of The Basque Country, Bilbao, Spain, **Lortek S.Coop., Orditzia, Spain, **University of Malta, Msida, Malta** **Inversity Of The Basque Country, Bilbao, Spain, **Lortek S.Coop., Orditzia, Spain, **University of Malta, Msida, Malta** **Inversity Of The Basque Country, Bilbao, Spain, **Lortek S.Coop., Orditzia, Spain, **University of Malta, Msida, Malta** **Inversity Of The Basque Country, Bilbao, Spain, **Inversity of Malta, Msida, Malta** **Inversity Of The Basque Country, Bilbao, Spain, **Inversity of Malta, Msida, Malta** **Inversity Of The Basque Country, Bilbao, Spain, **Inversity of Malta, Msida, Malta** **Inversity Of The Basque Country, Bilbao, Spain, **Inversity of Malta, Msida, Malta** **Inversity Of The Basque Country, Bilbao, Spain, **Inversity of Malta, Msida,
MICROSTRUCTURE STABILITY OF B-SOLIDIFYING TIAL ALLOYS PRODUCED BY SELECTIVE LASER MELTING
Dr. Joachim Gussone ¹ , Dr. Jan Haubrich ¹ , Dr. Gerardo Garces ² , Dr. Andreas Stark ³ , Dr. Yves-Christian Hagedorn ⁴ , Dr. Norbert Schell ³ , Prof. Guillermo Requena ¹ ¹ German Aerospace Center (DLR), Cologne, Germany, ² National Center for Metallurgical Research (CENIM-CSIC), Madrid, Spain, ³ Helmholtz-Zentrum Geesthacht (HZG), Geesthacht, Germany, ⁴ Fraunhofer Institute for Laser Technology (ILT), Aachen, Germany
SELECTIVE LASER MELTING OF CuCr1Zr
Katia Artzt ¹ , Dr. Jan Haubrich ¹ , Prof. Dr. Guillermo Requena ¹ ¹ German Aerospace Center (DLR), Germany
FABRICATION OF MOUTH GUARDS WITH ANTIMICROBIAL PROPERTY USING MATERIAL EXTRUSION 3D PRINTING
Mr Ehsan Jazaeri ¹ , Ms Tiffany Tang ² Monash University, Clayton, Australia, ² University of Warwick, coverntry, UK
FORGING OF ADDITIVE LAYER MANUFACTURED PREFORMS
<u>Dr Timur Khismatullin</u> ¹ , Dr Malgorzata Rosochowska ¹ ¹ Advanced Forming Research Centre, University of Strathclyde, Inchinnan, Renfrew, United Kingdom
WIRE ARC ADDITIVE MANUFACTURING OF FUNCTIONALLY GRADED DEPOSITS
Milan Agnani ¹ , Constantinos Goulas ^{1,2} , Wei Ya ^{2,3} , Marcel Joseph Marie Hermans ¹ Delft University of Technology, Department of Materials Science and Engineering, Mekelweg 2, 2628 CD Delft, The Netherlands, 'Rotterdam Additive Manufacture Fieldlab (RAMLAB), Scheepsbouwweg 8 - K03, 3089 JW, Rotterdam, The Netherlands, 'University of Twente, Chair of Applied Laser Technology, MS3 Department, Engineering Technology, P.O. Box 217, 7500 AE Enschede, The Netherlands
3D PRINTED STRUCTURES FOR CHEMISTRY AND ENERGY APPLICATIONS
Vesna Middelkoop¹ ¹VITO (Flemish Institute for Technological Research), Sustainable Materials Management, Belgium

		TIME: 13:00-15:00	ROOM: FOYER, E1/M1
DO	Thursday September 2	1, 201 <i>7</i>	
P2	Symposium C.5: Interface Design and Modelling, Wetting and High-Temperature Capillarity		
	RESEARCH ON OPTICAL ADHESIVES FOR TERABIT NETWOR	K	
C5-P-THU-P2-1	Prof. Seiko Mitachi ¹ , Mr. Daigo Kikuchi ¹ , Mr. Yuuichi Kage ¹ Tokyo Universty of Technology, 1404-1 Katakura, Hachioji, Tokyo, Japan, 2-1 Oiwake, Hiratshuka, Kanagawa, Japan		
	CHEMICAL REACTION OF Ga BASED ALLOYS ON Cu SUBSTR	ATE	
C5-P-THU-P2-2	<u>Dr Tomasz Gancarz</u> ¹, Dr Katarzyna Berent²		
	'Institute of Metallurgy And Materials Science Pas, Krakow, Poland, 'AGH Centre for Materials and Nanotechnology, Krakow, Poland	University of Science and Te	echnology, Academic
	SURFACE ENGINEERING TO IMPROVE CMC JOINTS: MECHAI	NICAL CHARACTERIZA	TION
C5-P-THU-P2-3	<u>Dr Valentina Casalegno</u> 1, Fabrizio Valenza², Maria Luigia	Muolo², Milena Salvo	o ¹ , Monica Ferraris ¹
	¹ Politecnico Di Torino- Department of Applied Science and Technology (Di Institute of Condensed Matter Chemistry and Technologies for Energy (CN	ISAT), Torino, Italy, ² Nationa IR-ICMATE), Genoa, Italy	al Research Council -
OF D THU DO /	WETTING AND INTERFACIAL REACTIVITY OF Zn-COATED STI Cu-Si, Cu-Sk and Al-Si filler metals for laser brazi		
C5-P-THU-P2-4	Dr. Alexey Koltsov¹, Dr. Laurent Cretteur²		
¹ ArcelorMittal Research, Maizières-lès-metz, France, ² ArcelorMittal Research, Montataire, France			
	GRAIN BOUNDARY WETTING AND SPD-INDUCED PHASE TRAND Ti-4 WT.% V-6 WT.% AL ALLOYS	ANSFORMATIONS IN T	HE Ti-4 WT.% V
C5-P-THU-P2-5	Dr. Alena Gornakova ² , <u>Prof Boris Straumal</u> ^{1,2,3,4} , Dr. Natal ¹ NITU MISIS, Chernogolovka, Russian Federation, ² Institute of Solid State ka, Russia, ³ Karlsruher Institut für Technologie (KIT), Institut für Nanotech ⁴ National University of Science and Technology «MISIS», Moscow, Russia	Physics, Russian Academy o	
	GRAIN BOUNDARY WETTING IN W-Ni ALLOYS		
C5-P-THU-P2-6	Dr. Andrey Mazilkin ^{2,3} , Prof Boris Straumal ^{1,2,3} , Dr. Svetla	na Protasova², Dr. Bri	gitte Baretzky³
	¹NITU MISis, Chernogolovka, Russian Federation, ²Institute of Solid State Physics, Russian Academy of Sciences, Chernogolov-ka, Russia, ³Karlsruher Institut für Technologie (KIT), Institut für Nanotechnologie, Eggenstein-Leopoldshafen, Germany		
	PSEUDOPARTIAL WETTING OF GRAIN BOUNDARIES		
C5-P-THU-P2-7	M.sc. Alexander Straumal ² , Dr. Andrey Mazilkin ^{2,3} , Dr. Brig 'NITU MISiS, Chernogolovka, Russian Federation, ² Institute of Solid State ka, Russia, ³ Karlsruher Institut für Technologie, Institut für Nanotechnolog	Physics, Russian Academy o	of Sciences, Chernogolov-
	EFFECT OF THE SOLDERING ATMOSPHERE ON THE WETTAB	ILITY OF A LEAD-FREE	SOLDER PASTE
C5-P-THU-P2-8	Dr. Delfim Soares ¹ , Eng. Helena Leitão ² , Dr. José Teixeira Teixeira ¹ , Dr. Maria Cerqueira ¹ , Dr. Francisco Macedo ¹ , En	g Ricardo Alves ²	. Senhorinha
	¹ Univ. Of Minho, Guimarães, Portugal, ² Bosch Car Multimedia, Braga, portu		
C5-P-THU-P2-9	NOVEL a-Si3N4 PLANAR SUPERHYDROPHOBIC NANOWIRE TAPE CASTING AND IN-SITU NITRIDATION OF SILICON	MEMBRANE THROUGH	
	Prof. Xin Xu ¹ , Mr. Lin Li ¹ , Dr. JunWei Wang ¹ , Prof. ChuShen		
	¹ University Of Science And Technology Of China, Hefei, China, ² University	·	nnina, Greece
	LIQUID BI PENETRATION INTO ULTRAFINE-GRAINED Cu POI	LYCRYSTAL	
C5-P-THU-P2-10	Dr. Anna Kosinova², Prof. Eugen Rabkin², Dr. Askar Kilmar		
	¹NITU MISIS, Chernogolovka, Russian Federation, ²Department of Materia tute of Technology, Haifa, Israel, ³Karlsruhe Institute of Technology, Institu Germany, ⁴Institute of Solid State Physics, Russian Academy of Sciences, U	ite of Nanotechnology, Egge	

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
P2	Thursday September 21, 2017
ГД	Symposium C.5: Interface Design and Modelling, Wetting and High-Temperature Capillarity
	CONTACT ANGLES OF WC/WC GRAIN BOUNDARIES WITH BINDER IN CEMENTED CARBIDES WITH VARIOUS CARBON CONTENT
C5-P-THU-P2-11	Dr. Igor Konyashin ^{2,3} , Prof Boris Straumal ^{1,3,4,5} , Dr. Berndt Ries ² , Prof. Marat Bulatov ⁶ , Dr Brigitte Baretzky ⁵
	'NITU MISIS, Chernogolovka, Russian Federation, ² Element Six GmbH, Burghaun, Germany, ³ National University of Science and Technology «MISIS», Moscow, Russia, ⁴ Institute of Solid State Physics, Russian Academy of Sciences, Chernogolovka, Russia, ⁵ Karlsruher Institut für Technologie, Institut für Nanotechnologie, Eggenstein-Leopoldshafen, Germany, ⁶ Moscow Technological University (MIREA), Moscow, Russia
	WETTING PROPERTIES OF LASER TREATED SURFACES
C5-P-THU-P2-12	Dr. Zoltan Weltsch ¹
	¹ Pallasz Athéné University, Kecskemét, Hungary
	EFFECT OF ADDITIVES ON INTERGRANULAR PRESSURE SOLUTION OF CALCITE
C5-P-THU-P2-13	Dr Vladimir Traskine ¹ , Professor Zoya Skvortsova ¹ , Dr Gennady Badun ¹ , Dr Mariya Chernysheva ¹ , Yaroslav Simonov ¹
	¹ Department of Chemistry, Lomonosov University, Moscow, Russian Federation
	WETTABILITY OF TRANSPARENT YAG (Y3AL5012) BY MOLTEN AGCUTI ALLOYS AND JOINING STUDY OF YAG/AgCuTi/Ti6Al4V SYSTEMS
C5-P-THU-P2-14	Sofia Gambaro ¹ , Fabrizio Valenza ¹ , Gabriele Cacciamani ¹ , Maria Luigia Muolo ¹ , Alberto Passerone ¹
	¹ National Research Council - Institute of Condensed Matter Chemistry and Technologies for Energy (CNR-ICMATE), Genova, Italy
	WETTING OF VITREOUS CARBON BY Ag-Cu-In-Ti REACTIVE ALLOY
C5-P-THU-P2-15	Ms. Meryem Tazi ^{1,2} , Mrs. Valérie CHAUMAT ¹ , M. Fiqiri HODAJ ²
	¹ Univ. Grenovle Alpes, CEA, LITEN, DTBH , LCA, Grenoble, France, ² Univ. Grenoble Alpes , SIMAP , Grenoble, France
	WETTING AND SPREADING AT THE NANOSCALE
C5-P-THU-P2-16	Dr Emily Brooke ¹ , Dr Anna Regoutz ¹ , Dr Catriona McGilvery ¹ , Prof Eduardo Saiz ¹ , Dr David Payne ¹
	¹ Department of Materials, Imperial College London, London, United Kingdom
C5-P-THU-P2-17	GRAPHITE FLAKES-Fe(/Co/Ni) PARTICLES/METAL COMPOSITES FOR POWER ELECTRONICS
	E. Louis, Dr J.M. Molina 'Instituto Universitario de Materiales de Alicante, Universidad de Alicante, Ap. 99, E-03080, Alicante, Spain, 'Departamento de Química Inorgánica, Universidad de Alicante, Ap. 99, E-03080, Spain, 'Departamento de Física Aplicada, Universidad de Alicante, Ap. 99, E-03080, Alicante, Spain
C5-P-THU-P2-18	PREPARATION, HEAT TREATMENT AND SURFACE PROPERTY ASSESSMENT OF AL-MATRIX COMPOSITES IN-SITU REINFORCED WITH Mg2Si and EX-SITU REINFORCED WITH TIC PARTICLES
	Angeliki Lekatou ¹ , Anthi Poulia ¹ , Alexander E. Karantzalis ¹ , Emmanouil Georgatis ¹
	¹ Applied Metallurgy Laboratory, Department of Materials Science and Engineering, University of Ioannina, Ioannina, Greece

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1		
P2	Thursday September 21, 2017		
Symposium C.8: Solidification, Casting, Foundry and Liquid Metal processing			
	INTEGRATED SYSTEM OF THERMAL / DIMENSIONAL ANALYSES FOR QUALITY CONTROL OF METALLIC MELT AND DUCTILE IRON CASTING SOLIDIFICATION		
C8-P-THU-P2-1	Phd Stelian Stan ¹ , PhD Mihai Chisamera ¹ , PhD Iulian Riposan ¹ , PhD Iulian Stan ¹ , PhD student Loredana Neacsu ¹ , PhD student Ana Maria Cojocaru ¹ **Politehnica University Of Bucharest, Bucuresti, Romania**		
	MICROSTRUCTURAL AND CRYSTALLOGRAPHIC CHARACTERIZATION OF LEDEBURITE IN Fe-C-Si ALLOYS		
C8-P-THU-P2-2	Stefan Kante ¹ , Prof. Dr. rer. nat. habil. Andreas Leineweber ¹ 'Institute of Materials Science, TU Bergakademie Freiberg, Freiberg, Germany		
	EFFECT OF SR ADDITION ON MICROSTRUCTURE AND CORROSION BEHAVIOR OF A356 ALUMINUM ALLOYS		
C8-P-THU-P2-3	Graduate Student İsmail Öztürk ¹ , Dr. Gökçe Hapçı Ağaoğlu ¹ , <u>Assoc. Prof. Derya Dışpınar</u> ¹ , Prof. Dr. Gökhan Orhan ¹		
	'Istanbul University, Istanbul, Türkiye		
	FEEDABILITY CHARACTERISTICS OF Sr-MODIFIED A356 ALLOY		
C8-P-THU-P2-4	Gokhan Gorel ¹ , Ozen Gursoy ¹ , Dr Eray Erzi ¹ , <u>Assoc.Prof.Dr. Derya Dispinar</u> ¹ "Istanbul University		
	EFFECT OF TI AND SI ON THE MICROSTRUCTURAL CHANGES OF EUTECTIC AL-SI ALLOY		
C8-P-THU-P2-5	Secil Demirkesen ¹ , Ozen Gursoy ¹ , Eray Erzi ¹ , Derya Dispinar ¹ **Istanbul University**		
	HEAT TREATMENT PARAMETERS FOR H12 CONDITION FOR Mg AND Sr ADDED AA1050 ALLOY		
C8-P-THU-P2-6	Emrehan Dogan ¹ , Onur Kara ¹ , Ozen Gursoy ¹ , Eray Erzi ¹ , Sebahattin Kirtay ¹ , Derya Dispinar ¹ **Istanbul University, Turkey		
	MOULD FILLING ABILITY AND MECHANICAL PROPERTIES OF SIMA PRODUCED 7075		
C8-P-THU-P2-7	Eray Erzi ¹ , Caglar Yuksel ² , Ozen Gursoy ¹ , Sebahattin Kirtay ¹ , Derya Dispinar ¹ ¹ Istanbul University, ² Yildiz Technical University		
	THREE DIMENSIONAL CHARACTERIZATION OF STRUCTURAL DEFECTS OF MULTILAYER CERAMIC SHELL MOULDS BY X-RAY COMPUTED TOMOGRAPHY METHOD		
C8-P-THU-P2-8	Msc. Eng. Adam Tchorz ¹ , Msc. Eng. Izabela Krzak ¹ , Prof. Marzanna Ksiazek ¹ , Msc. Eng. Lukasz Boron ¹ 'Foundry Research Institute, Cracow, Poland		
	EFFECT OF Zn ON SOLID/LIQUID INTERFACE ENERGY OF B-Sn		
C8-P-THU-P2-9	Mr Masaru Nagaoka¹, Dr Hisao Esaka¹, Dr Kei Shinozuka¹¹¹National Defense Academy of Japan, Yokosuka, Japan		
	MELT QUALITY CHANGE WITH DIFFERENT FLUXES IN SECONDARY A356 ALLOY		
C8-P-THU-P2-10	Caglar Yuksel ¹ , Ozge Tamer ¹ , Eray Erzi ² , Ugur Aybarc ³ , Emre Cubuklusu ³ , Ozgur Topcuoglu ³ , Mustafa Cigdem ¹ , Derya Dispinar ² 1Yildiz Technical University, ² Istanbul University, ³ CMS Wheels		
	MELT QUALITY AND MECHANICAL PROPERTY CHANGE IN MIXED RATIOS OF SCRAP AND PRIMARY A356		
C8-P-THU-P2-11	Ozge Tamer ¹ , Caqlar Yuksel ¹ , Eray Erzi ² , Ugur Aybarc ³ , Emre Cubuklusu ³ , Ozgur Topcuoglu ³ , Mustafa Cigdem ¹ , Derya Dispinar ² 'Yildiz Technical University, ² Istanbul University, ³ CMS Wheels		
	POROSITY FORMATION BY Sr, Ti AND B ADDITION TO A413 ALUMINUM ALLOY		
C8-P-THU-P2-12	Muhammet Uludag ¹ , Derya Dispinar ² 'Bursa Technical University, ^{1,2} Istanbul University		
	CHARACTERISATION OF HOT TEARING SUSCEPTIBILITY OF A380		
C8-P-THU-P2-13	Muhammet Uludaq¹, Remzi Cetin², Murat Tiryakioglu³, Derya Dispinar⁴		
	Bursa Technical University, ² Halic University, , ³ University of North Florida, ⁴ Istanbul University		

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1		
P2	Thursday September 21, 2017		
Symposium C.8: Solidification, Casting, Foundry and Liquid Metal processing			
C8-P-THU-P2-14	STATISTICAL APPROACH ON ASSESSMENT OF ALUMINUM MELT QUALITY BY REDUCED PRESSURE TEST		
	Muhammet Uludag ¹ , Remzi Cetin ² , Murat Tiryakioglu ³ , Derya Dispinar ⁴ Bursa Technical University, ² Halic University, ³ University of North Florida, ⁴ Istanbul University, Turkey		
	HOT TEARING OF Sr-B MODIFIED A356		
C8-P-THU-P2-15	Muhammet Uludag ¹ , Remzi Cetin ² , Derya Dispinar ³ 'Bursa Technical University, ² Halic University, ³ Istanbul University, Turkey		
	MICROSTRUCTURAL CHANGES OF HYPEREUTECTIC AL-Si ALLOY BY Sr		
C8-P-THU-P2-16	Muhammet Uludag ¹ , <u>Lokman Gemi</u> ² , Derya Dispinar ³ ¹ Bursa Technical University, ² Necmettin Erbakan University, ³ Istanbul University		
	COMPARISON OF MELT CLEANING WITH AND WITHOUT FLUXES IN 206 ALUMINIUM ALLOY		
C8-P-THU-P2-17	Murat Colak¹, Derya Dispinar²		
	¹ Bayburt University, ² Istanbul University, Turkey		
	SOLIDIFICATION KINETICS OF Cuzr ALLOY: GROUND-BASED AND MICROGRAVITATIONAL EXPERIMENTS		
C8-P-THU-P2-18	Dr. Peter Galenko ² , R Hanke ² , Ph Paul ² , S Koch, M Rettenmayr ² , R Kobold ⁴ , M Kolbe ⁴ , J Gegner ⁴ , D Holland-Moritz ⁴ , D Herlach ⁴ , W Dreier ⁵ , Dr. Evgeny Kharanzhevskiy ¹ 1 Udmurt State University, Izhevsk, Russian Federation, ² Friedrich-Schiller-Universität Jena, Physikalisch-Astronomische Fakultät, D-07743 Jena, Germany, ³ Ural Federal University, Laboratory of Multi-Scale Mathematical Modeling, 620002 Ekaterinburg, Russia, ⁴ Deutsches Zentrum für Luft- und Raumfahrt, Institut für Materialphysik im Weltraum, D51170 Köln, Germany, ⁵ Ruhr-Universitä, Physikalisch-Astronomische Fakultät, D-44810 Bochum, Germany		
	PHASE SEGREGATION DISCUSSION IN A HFZrTinbv High Entropy Alloy: The paradox of the high melting point element		
C8-P-THU-P2-19	Dipl. Eng Anthoula Poulia¹, Dipl. Eng. Emmanuel Georgatis¹, Dipl. Eng. Christina Mathiou¹, Dr. Alexander Karantzalis¹		
	1 University Of Ioannina, Ioannina, Greece		
C8-P-THU-P2-20	SOLIDIFICATION SEQUENCE AND SALINE CORROSION PERFORMANCE OF CAST ALUMINIUM MATRIX COMPOSITES REINFORCED WITH SUBMICRON TUNGSTEN CARBIDE PARTICLES		
001 1110 12 20	Prof. Angeliki Lekatou ¹ , Prof. Alexandros Karantzalis ¹ , Mr. Nicolaos Gkikas ¹ , Ms. Vasiliki Gousia ¹ 'University Of Ioannina, Ioannina, Greece		
00 D THU DO 01	ULTRASONIC MELT TREATMENT OF LIGHT ALLOYS - AN INNOVATIVE APPROACH WITHOUT ENVIRONMENTAL IMPACT		
C8-P-THU-P2-21	Joaquim Barbosa ¹ , Helder Puga ¹ 'CMEMS - Center for Microelectromechanical Systems - Universidade Do Minho, Guimarães, Portugal		
	THE ROLE OF MELT STIRRING AND MN-RICH INTERMETALLIC PHASES		
C8-P-THU-P2-22	IN THE FORMATION OF THE PRIMARY AL-PHASE IN ALSI ALLOYS Dr Piotr Mikolajczak¹, Professor Lorenz Ratke²		
	Poznan University of Technology, Institute of Materials Technology, Poznan, Poland, German Aerospace Center DLR, Institut für Werkstoff-Forschung, Cologne, Germany		
	UNIVARIANT EUTECTIC SOLIDIFICATION: DIRECTIONAL GROWTH OF AI2Cu AND Ag2Al PHASES IN THE TERNARY AI-Ag-Cu SYSTEM		
C8-P-THU-P2-23	Kemal Babayev ¹ , Research Assistant Professor Melis Serefoglu Kaya ¹ 'Koc University, İstanbul, Turkey		
	EFFECT OF HEAT TREATMENT ON MECHANICAL PROPERTIES IN AL-12 SI ALLOY WITH VARIOUS Mg COMPOSITION RATIO		
C8-P-THU-P2-24	Dr. Muhammet Uludag¹, <u>Dr. Mustafa Kocabaş</u> , Dr. Şakir Yazman, Prof. Dr. Derya Dişpinar 'Bursa Technical University, Bursa, Turkey		
	THE CORRELATION BETWEEN CASTING QUALITY AND WEAR BEHAVIOR IN AI-12 Si ALLOY WITH VARIOUS MG COMPOSITION		
C8-P-THU-P2-25	Dr. Muhammet Uludag¹, <u>Mr. Muhammed Abdullah YILDIZ</u> , Dr. Mustafa KOCABAŞ, Prof. Dr. Derya DIŞPINAR		
	¹ Bursa Technical University, Turkey		

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
P2	Thursday September 21, 2017
	Symposium C.9: Manufacturing Processes
C9-P-THU-P2-1	STUDY ON SOLID STATE WELDING AND SUPERPLASTIC FORMING FOR AEROSPACE PRESSURE VESSEL
	Professor Ho-sung Lee¹ ¹Korea Aerospace Research Institute, Daejeon, South Korea
	DESIGN OF EXPERIMENTS FOR THE OPTIMIZATION OF CUTTING FORCE AND SURFACE ROUGHNESS OF LEAD-FREE BRASS ALLOYS
C9-P-THU-P2-2	Mr Anagnostis Toulfatzis ^{1,3} , Dr George Pantazopoulos ¹ , Professor Constantine David ² , Dr Dimitrios Sagris ² , Professor Alkiviadis Paipetis ³
	¹ ELKEME S.A - Hellenic Research Centre for Metals S.A, 56th km Athens - Lamia National Road, 32011 Oinofyta Viotias, Greece, ² Department of Mechanical Engineering, Technological Educational Institute of Central Macedonia, 62124 Serres, Greece, ³ Department of Materials Science and Engineering, University of Ioannina, 45110 Ioannina, Greece
	INFLUENCE OF SUBSTRATE GRANULATION ON SHS SYNTHESIS OF THE BINARY COMPOUNDS IN THE Ti-AL AND Fe-AL SYSTEM
C9-P-THU-P2-3	M.Sc. Katarzyna Chabior ¹ , Professor Jerzy Lis ¹ , D.Sc. Leszek Chlubny ¹ , M.Sc. Paulina Borowiak ¹ , M.Sc Karolina Kozak ¹ 'AGH University of Science and Technology, Krakow, Poland
	STATIC AND DYNAMIC MECHANICAL PROPERTIES OF FLUOROCARON POLYMER: MULTI-SCALE INVESTIGATION
C9-P-THU-P2-4	<u>Dr Ahmed Mdarhri</u> ¹ , A Nourdine ^{2,3} , A Montagne ⁴ , Ilham EL ABOUDI ¹ , A Iost ⁴
C7-F-1110-F2-4	¹ Laboratoire de la Matière Condensée et des Nanostructures (LMCN), FSTG Université Cadi Ayyad Av. A. Khattabi, B.P. 549, 40 000 Marrakech, Maroc , Marrakech, Morocco, ² LEPMI, University of Savoie Mont Blanc, Chambéry F-73000, France , Chambéry, France, ³ LEPMI, CNRS, Grenoble F-38000, France , Grenoble, France, ⁴ Arts & Metiers ParisTech; Mechanics, Surfaces and Materials Processing (MSMP), 8 BD Louis XIV, 59046 Lille, France, Lille, France
C9-P-THU-P2-5	THE STUDY OF RELATIONSHIPS BETWEEN THE CHARACTERISTICS OF BINDER SYSTEM AND INJECTION MOLDING BEHAVIOR IN THE FABRICATION PROCESS OF HIGH ASPECT RATIO MICRO PATTERN STRUCTURE
	Dr. Yongdae Kim ¹ , Dr. Wonsik Lee ¹ , Mr. Jin-Man Jang ¹ ¹ Korea Institute Of Industrial Technology, 156, Getpearl-ro, Yeonsu-Gu, Korea
	FABRICATION OF MICRO MOLD FOR POWDER INJECTION MOLDING BY ELECTROFORMING OF Fe-Ni ALLOYS
C9-P-THU-P2-6	Sung Cheol Park ¹ , Dr. Seong Ho Son ¹ , Dr. Ho-Nyun Lee ¹ , Jin Yeon Lee ¹ , Dr. Wonsik Lee ¹ , Dr. Yong-Dae Kim ¹
	'Korea Institute Of Industrial Technology, South Korea
	MODEL-BASED ONLINE TOOL MONITORING FOR HOBBING PROCESSES
C9-P-THU-P2-7	Prof. Dr. Ing. Dr. Ing. e.h. Dr. hc Dr. hc Fritz Klocke ¹ , Dr. Ing. Benjamin Döbbeler ¹ , <u>Sven Goetz</u> ¹ 'WZL der RWTH Aachen University, Aachen, Germany
	THE EFFECT OF POROSITY ON THE MILLING OF POROUS ALUMINUM
00 D THU DO 0	<u>DrEng. Nikolaos Michailidis</u> ¹ , Mr. Spyridon Kombogiannis ² , Mr. Paschalis Charalampous ² , DrEng. Georgios Maliaris ³
C9-P-THU-P2-8	¹ Physical metallurgy Laboratory, Dept. of Mechanical Engineering, School of Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece, ² Laboratory for Machine Tools and Manufacturing Engineering, Dept. of Mechanical Engineering, School of Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece, ³ Mechatronics & Electromechanical Systems Automation Laboratory, Dept. of Electrical and Computer Engineering, Polytechnics school, Democritus University of Thrace, Xanthi, Greece
C9-P-THU-P2-9	MICROSTRUCTURAL CHANGES OCCURRING IN SHAPE MEMORY ALLOYS AFTER VARIOUS MANUFACTURING PROCESSES
	DrEng. Nikolaos Michailidis ^{1,2} , DrEng. Fani Stergioudi ^{1,2} , Mr. Marios Pantazopoulos ^{1,2} , DrEng. Konstantinos-Dionysios Bouzakis ³ , DrEng. Georgios Skordaris ³ , Mr. Paschalis Charalampous ³ , Dr. Theocharis Baxevanis ⁴ , PhD Dimitrios Lagoudas ^{5,2}
	¹Physical metallurgy Laboratory, Dept. of Mechanical Engineering, School of Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece,²Center for Research & Development of Advanced Materials, KEDEK - AUTh Balkan Center, Thessaloniki, Greece,³Laboratory for Machine Tools and Manufacturing Engineering, Dept. of Mechanical Engineering, School of Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece, 'University of Houston, Houston, USA, 'Texas Institute for Intelligent Materials and Structures (TiiMS), Texas A&M University, College Station, USA

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		TIME: 13:00-15:00	R00M: F0YER, E1/M1
Thursday September 21, 2017		1, 201 <i>7</i>	
Γ2	Symposium C.9: Manufacturing	g Processes	
C9-P-THU-P2-10	CURE MONITORING IN FULLY OR PARTIALLY CLOSED TOOLS RESONANT ULTRASONIC SPECTROSCOPY	SUSING	
	Christian Pommer ¹		
	¹Tu-braunschweig, Braunschweig, Germany		
C9-P-THU-P2-11	SINGLE POINT INCREMENTAL FORMING OF COPPER		
	Mr Kishore Jawale ¹ , Dr José F Duarte ¹ , <u>Dr Ana Reis</u> ¹ , Dr M ¹ Inegi, Porto, Portugal, ² IDMEC, IST, Lisbon, Portugal	l Beatriz Silva²	

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
D2	Thursday September 21, 2017
FZ	Symposium C.10: Thermomechanical Processing, Severe Plastic Deformation and Nano-structuring
	Fe-B-INTERSTITIAL ALLOYS, WITH CONTROLLED MICROSTRUCTURE: A DREAM OR A REALITY
C10-P-THU-P2-1	<u>Doctor Catherine Cordier</u> ¹ , Professor Jacques Foct ¹ 'Univ. Lille, CNRS, INRA, ENSCL, UMR 8207, UMET, Unité Matériaux Et Transformations, Lille, France
	CARBON NANOTUBES AS ENHANCERS OF THE MICROSTRUCTURE STABILITY IN METAL MATRIX COMPOSITES: A STUDY OF THE STRUCTURAL DEFECTS AFTER SEVERE PLASTIC DEFORMATION
C10-P-THU-P2-2	<u>Dipl. Ing. Katherine Aristizabal</u> ¹ , Dr. Ing. Sebastian Suarez ¹ ¹ Dept. Materials Science and Engineering, Saarland University, Saarbruecken, Germany
	SEVERE PLASTIC DEFORMATION INDUCED DYNAMIC PRECIPITATION IN Cu-Cr-Zr ALLOY
C10-P-THU-P2-3	PhD Student Harun Yanar ¹ , Prof.Dr. Gencaga Purcek ^{1,2} , PhD Student Muhammet Demirtas ³ , Dr. D.V. Shangina ^{4,5} , Prof. Dr. S.V. Dobatkin ^{4,5}
0101 1110120	¹ Department of Mechanical Engineering, Karadeniz Technical University, Trabzon, Turkey, Trabzon, Turkey, ² Engineering Faculty, Giresun University, Giresun, Turkey, ³ Department of Mechanical Engineering, Bayburt University, Bayburt, Turkey, A.A.Baikov Institute of Metallurgy and Materials Science of RAS, Moscow, Russia, Moscow, Russia, Snational University of Science and Technology "MISIS", Laboratory of Hybrid Nanostructured Materials, Russia, Moscow, Russia
C10 D TIIII D2 /	ANNEALING BEHAVIOR OF A 316L AUSTENITIC STAINLESS STEEL PROCESSED BY LARGE STRAIN WARM ROLLING
C10-P-THU-P2-4	Miss Marina Odnobokova ¹ , Andrey Belyakov ¹ , Rustam Kaibyshev ¹
	Belgorod State University, Belgorod, Russian Federation
040 D TIIII D0 F	MICROSTRUCTURE AND DUCTILITY OF UFG BINARY AL-Zn ALUMINUM ALLOY
C10-P-THU-P2-5	Elena Bobruk¹ ¹Ufa State Aviation Technical University, Ufa, Russian Federation
	RELATIONSHIP BETWEEN SUPERPLASTICITY AND DAMPING CAPACITY IN NATURALLY AGED Zn-Al ALLOYS
C10-P-THU-P2-6	MS Muhammet Demirtas ¹ , PhD Kadri C. Atli ² , MS Harun Yanar ³ , PhD Gencaga Purcek ^{3,4}
	¹ Bayburt University, Bayburt, Turkey, ² Anadolu University, Eskişehir, Turkey, ³ Karadeniz Technical University, Trabzon, Turkey, ⁴ Engineering Faculty, Giresun University, Giresun, Türkey
C10-P-THU-P2-7	INFLUENCE OF STRAIN RATE AND STRAIN PATH ON THE MECHANICAL BEHAVIOR OF AA 6061–T6 ALLOY
	Bermane Beucia ¹ , Jérôme Mespoulet ³ , Hervé Couque ² , Thierry Chauveau ¹ , Azziz Hocini ¹ , Damien Faurie ¹ , Zofia Trzaska ¹ , Pierre Hereil ³ , David Tingaud ¹ , Dominique Vrel ¹ , Patrick Langlois ¹ , Guy Dirras ¹
	¹Université Paris 13, Sorbonne Paris-Cité, LSPM-CNRS, Villetaneuse, France, ²Nexter Munition, Bourges, France, ³Thiot Ingenierie, Puybrun, France
	MICROSTRUCTURE, MECHANICAL AND PERFORMANCE PROPERTIES OF AN ALALLOY 6101 AFTER ECAP-CONFORM AND COLD DRAWING
C10-P-THU-P2-8	Maxim Murashkin ¹ 'Ufa State Aviation Technical University, Ufa, Russian Federation

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1		
P2	Thursday September 21, 2017		
Symposium C.10: Thermomechanical Processing, Severe Plastic Deformation and Nano-structuring			
	MECHANICAL PROPERTIES OF LIGHT ALLOYS AT HIGH TEMPERATURES		
C10-P-THU-P2-9	Mr. Salar Salahi¹, Mr. Kambiz Shojaei¹, Prof. G. Guven Yapici¹ ¹Ozyegin University, Istanbul, Turkey		
	ULTRAFINE GRAINED MICROSTRUCTURE IN THE Ti-5.7Al-3.8Mo-1.2Zr-1.3Sn ALLOY PROCESSED BY EQUAL-CHANNEL ANGULAR PRESSING		
C10-P-THU-P2-10	G.S. Dyakonov ¹ , I. P. Semenova ¹ , Y. F. Grishina ¹ , G. I. Raab ¹		
	¹ Institute of Physics of Advanced Materials, Ufa State Aviation Technical University, Ufa, Russian Federation		
	THE EFFECT OF Nb ON THE MICROTEXTURE AND MICROSTRUCTURE OF A NOVEL AS-ROLLED WEAR RESISTANT SLURRY PIPELINE STEEL		
C10-P-THU-P2-11	Ph.d Student Vahid Javaheri ¹ , Professor David Porter ¹		
	¹University Of Oulu, Oulu, Finland		
C10-P-THU-P2-12	LOCALIZATION OF DEFORMATION UNDER SHOCK WAVE IMPACT		
	Doctor of physics and mathematical science Sergey Plotnikov ¹ , Doctor of physics and mathematical science Vladimir Oleshko ² , Amanzhol Turlybekuly ¹		
	¹ D. Serikbayev East Kazakhstan State Technical University, Ust-kamenogorsk, Kazakhstan, ² Tomsk Polytechnic University, Tomsk, Russia		

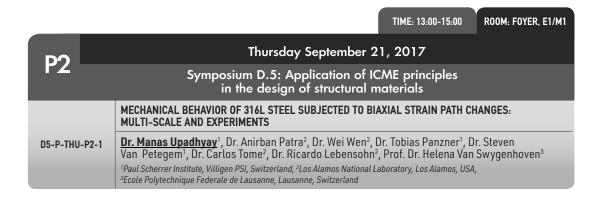
	TIME: 13:00–15:00 R00M: F0YER, E1/M1		
DO	Thursday September 21, 2017		
PZ	Symposium C.11: Processes and Materials for Nanoelectronics		
	DEMONSTRATION OF ULTRA-LOW POWER MULTILEVEL SWITCHING WITH ENHANCED UNIFORMITY IN FORMING FREE TIO2-X-BASED RRAM WITH EMBEDDED PT NANOCRYSTALS		
C11-P-THU-P2-1	<u>Dr. Menelaos Tsigkourakos</u> ¹, Phd Student Panagiotis Bousoulas¹, Phd Student Vaggelis Aslanidis¹, Phd Student Patrick Asenov¹, Professor Dimitris Tsoukalas¹		
	¹ Department Of Applied Physics, National Technical University Of Athens , Heroon Polytechniou 9, Greece		
	TERBIUM BASED METAL ORGANIC NETWORK FOR SOLUTION PROCESSED OLEDS		
C11-P-THU-P2-2	Prof. Carmen Coya ¹ , Prof. Angel Luis Álvarez ¹ , Prof. Mª Ángeles Monge ² , Prof. Enrique Gutiérrez-Puebla ² , Prof. Alicia de Andrés ²		
	¹ Escuela Técnica Superior de Ingeniería de Telecomunicación (ETSIT), Universidad Rey Juan Carlos, Móstoles, Spain, ² Instituto de Ciencia de Materiales de Madrid, Consejo Superior de Investigaciones Científicas (CSIC), Cantoblanco, Spain		
	COMPACT MODELING OF NANOSCALE TRIPLE-GATE JUNCTIONLESS TRANSISTORS COVERING DRIFT-DIFFUSION TO QUASI-BALLISTIC CARRIER TRANSPORT		
C11-P-THU-P2-3	Mr. Theodoros Oproglidis ¹ , Ms. Theano Karatsori ¹ , Dr. Sylvaine Barraud ³ , Prof. Gerard Ghibaudo ² , Prof. Charalabos Dimitriadis ¹		
	¹ Aristotle University Of Thessaloniki, Thessaloniki, Greece, ² IMEP-LAHC Laboratory in Minatec, Grenoble, France, ³ LETI-CEA, Grenoble, France		
	OPTIMIZATION OF THE CATALYTIC SYSTEM TOWARDS WELL-DEFINED DONOR-ACCEPTOR SEMICONDUCTING POLYMERS		
C11-P-THU-P2-4	Michael Spanos ^{1,2}		
	¹ Department of Materials Science and Engineering, University of Ioannina, Ioannina, Greece, ² Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece, ³ Advent Technologies S.A, Patras, Greece		
	CIRCUIT DESIGN AT SUB-20NM FINFET TECHNOLOGY: MATERIALS AND DESIGN TECHNIQUES EFFECTS		
C11-P-THU-P2-5	Mr Dimitrios Balobas ¹ , Dr Nikos Konofaos ¹		
	¹Aristotle University Of Thessaloniki, Thessaloniki, Greece		
C11-P-THU-P2-6	ELECTRICAL PERFORMANCE OF ATOMIC LAYER DEPOSITED ALUMINA FILMS USING DIFFERENT OXIDANTS		
	Dr Nikolaos Nikolaou ¹ , Dr Panagiotis Dimitrakis ¹ , Dr Pascal Normand ¹ , Aggelos Zeniou ¹ , Dr Kaupo Kukli ^{2,3} , Professor Mikko Ritala ² , Professor Markku Leskelä2, Dr Vassilios Ioannou-Sougleridis¹ ¹ Institute of Nanoscience and Nanotechnology, NCSR 'Demokritos', 153 10 Aghia Paraskevi, Greece, ² Department of Chemistry, University of Helsinki, FI-00014 Helsinki, Finland, ³ Institute of Physics, University of Tartu, Ravila 14c, EE-50411 Tartu, Estonia		

	TIME: 13:00-15:00 R00M: F0YER, E1/M1
P2	Thursday September 21, 2017
12	Symposium C.11: Processes and Materials for Nanoelectronics
C11-P-THU-P2-7	INVESTIGATION OF INSTABILITIES IN OXIDE-NITRIDE-ALUMINA MEMORY CAPACITORS
	Dr Nikolaos Nikolaou¹, Dr Panagiotis Dimitrakis¹, Dr Pascal Normand¹, Dr Konstantinos Gianna- kopoulos¹, Dr Mario Barozzi², Dr Giancarlo Pepponi², Dr Kaupo Kukli³,4, Professor Mikko Ritala³, Professor Markku Leskelä³, Dr Vassilios Ioannou-Sougleridis ¹
	¹ Institute of Nanoscience and Nanotechnology, NCSR 'Demokritos', 153 10 Aghia Paraskevi, Greece, ² Fondazione Bruno Kessler, CMM, MNF, MateC, Trento, Italy, ³ Department of Chemistry, University of Helsinki, FI-00014 Helsinki, Finland, ⁴ Institute of Physics, University of Tartu, Ravila 14c, EE-50411 Tartu, Estonia
C11-P-THU-P2-8	A 3-DIMENSIONAL SIMULATOR OF A TENSILE STRESS SENSOR BASED ON TUNNELING BETWEEN CNTS
	Prof John Xanthakis ¹ , <u>Mr Menelaos Tsagarakis</u> ¹ ¹ National Technical University of Athens, Athens, Greece
C11-P-THU-P2-9	ON THE APPLICABILITY OF THE NATORI FORMULA TO REALISTIC MULTI-LAYER QUANTUM WELL III-V FETS
	<u>Dr Argyro Gilti</u> ¹ , Professor John Xanthakis ¹ 'National Technical University Of Athens, Athens, Greece
C11-P-THU-P2-10	OPTICAL PROPERTIES OF PEROXY BRIDGES FROM FIRST PRINCIPLES: SITE-TO-SITE DISORDER EFFECTS
	Blaz Winkler ^{1,2} , Layla Martin-Samos ^{1,4} , Nicolas Richard ³ , Luigi Giacomazzi ⁴ , Antonino Alessi ² , Sylvain Girard ² , Aziz Boukenter ² , Youcef Ouerdane ² , Matjaz Valant ¹
	¹ University Of Nova Gorica, Materials Research Laboratory, Ajdovscina, Slovenia, ² University Jean Monet, Laboratorie Hubert Curien, Saint-Etienne, France, ³ CEA, DAM, DIF, Arpajon, France, ⁴ CNR-IOM/Democritos National Simulation Center, Trieste, Italy
C11-P-THU-P2-11	STRUCTURAL, MORPHOLOGICAL AND ELECTRICAL CHARACTERIZATION OF HOT-WIRE DEPOSITED METAL OXIDES
	<u>Dr Giorgos Papadimitropoulos</u> ¹ , Dr Dimitrios Kouvatsos ¹ , Dr Dimitrios Davazoglou ¹ ¹NCSR Demokritos, Athens, Greece
C11-P-THU-P2-12	THE INFLUENCE OF EMBEDDED HAFNIUM NANOPARTICLES ON THE RESISTIVE SWITCHING BEHAVIOR OF METAL OXIDE THIN FILMS
	Irini Michelakaki¹, Panagiotis Bousoulas¹, Nikos Boukos², <u>Dimitris Tsoukalas</u> ¹NTUA, Zographou, Greece, ²NCSR Demokritos, Aghia Paraskvi, Greece
C11-P-THU-P2-13	INELASTIC NEUTRON SCATTERING AND INFRARED SPECTROSCOPIC STUDY OF THE ORTHORHOMBIC-TETRAGONAL PHASE TRANSITION IN CH3HN3Pbi3
	Götz Schuck ¹ , Daniel M. Többens ¹ , Monika Koch-Müller ² , Ilias Efthymiopoulos ² , Susan Schorr ¹ ¹ Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, 14109 Berlin, Germany, ² Helmholtz-Zentrum Potsdam, Deutsches GeoForschungsZentrum - GFZ, Telegrafenberg, 14473 Potsdam, Germany
C11-P-THU-P2-14	CHALLENGES IN PREPARATION OF MICROWAVE TUNABLE DEVICES WITH DOPED BaTi03 THIN FILMS
	Jelena Vukmirovic¹, Branimir Bajac¹, Andrea Nesterovic¹, Georges Dubourg², Jovana Stanojev², Sanja Kojic³, Goran Stojanovic³, Vladimir Srdic¹ ¹Faculty Of Technology Novi Sad, Novi Sad, Serbia, ²BioSense Institute, Novi Sad, Serbia, ³Faculty Of Technical Sciences, Novi Sad, Serbia
C11-P-THU-P2-15	GROWTH AND PROPERTIES OF GESISN STRAINED LAYERS ON SI(100)
	Dr. Alexandr Nikiforov ^{1,2} , Dr. Vaycheslav Timofeev ¹ , Artur Tuktamyshev ¹ , Michail Loshkarev ¹ , Dr. Serge Teys ¹ , Prof. Oleg Pchelyakov ^{1,2} 1Rhanov Institute Of Semiconductor Physics SB RAS, Novosibirsk, Russian Federation,
	² National Research Tomsk State University, Tomsk, Russian Federation
C11-P-THU-P2-16	IMPEDIMETRIC NANOWIRE-APTASENSOR, FOR SELECTIVE PESTICIDE DETECTION E. Skotadis¹, L. Madianos¹, G. Tsekenis², L. Patsiouras¹, D. Tsoukalas¹
	Department of Applied Physics, National Technical University of Athens, Athens, Greece, Biomedical Research Foundation of the Academy of Athens, Athens, Greece
	THE SURFACE OF SILICON NANOWIRES AND ITS ROLE IN THE DEACTIVATION OF DOPANTS
C11-P-THU-P2-17	Dr. Stefano Paleari ¹ , Dr. Matteo Belli 2, Prof.Marco Fanciulli ^{1,2} ¹ Universita' Di Milano - Bicocca, Milan, Italy, ² CNR-IMM MDM Laboratory, Agrate Brianza, Italy

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		TIME: 13:00-15:00	ROOM: FOYER, E1/M1
P2	Thursday September 21	, 2017	
	Symposium D.3: Materials at extreme condit compression combined or not with low or		
D3-P-THU-P2-1	DIELECTRIC MATERIAL MEASUREMENT OF HYPERSONIC ELE WINDOWS FOR HIGH TEMPERATURE	CTROMAGNETIC	
	Yinfang Xu ¹ , Junwu Zhang ¹ ¹ Beijing Institute Of Space Long March Vehicle, Fengtai, China		
	HIGH PRESSURE RESPONSE AND HYDROSTATICITY OF THE FINANCIAL STUDIED BY RAMAN SPECTROSCOPY	C70 FLUORINERTTM	
D3-P-THU-P2-2	Mr Stavros Misopoulos ¹ , Ms Aspasia Zerfiridou ^{1,2} , Mr Kyria Mr Dimitris Christofilos ³ , Mr Sotirios Ves ¹ , Mr Gerasimos A. 1 Physics Department, Aristotle University Of Thessaloniki, Thessaloniki, Greece, 3 Chemical Engineering Department, Aristotle	. Kourouklis³, Mr Joh eece, ²Food Technology De	epartment, ATEI of Thes-
	COMPARATIVE HIGH PRESSURE RAMAN STUDY OF THE MIXE Sm2.75C60 AND Eu2.75C60 FULLERIDES	D VALENCE	
D3-P-THU-P2-3	Dr. S.M. Souliou ^{1,2} , Dr. J. Arvanitidis ³ , Dr. D. Christofilos ⁴ , Prof. G.A. Kourouklis ⁴ , Prof. K. Prassides ⁶ , Prof. Y. Iwasa ⁷ , F ¹ European Synchrotron Radiation Facility, BP 220, F-38043 Grenoble Cedex schung, Max-Planck Institut für Festkörperforschung, 70569 Stuttgart, Gerr of Thessaloniki, 54124 Thessaloniki, Greece, ⁴ Chemical Engineering Depart Thessaloniki, Greece, ⁵ Physics Department, University of Patras, 26504 Patr Research, Tohoku University, 2-1-1 Katahira, Sendai 980-8577, Japan, ⁷ Dep 113-8656 Tokyo, Japan	k, France, ² Max-Planck Inst many, ³ Physics Departmen tment, Aristotle University tras, Greece, ⁶ WPI-Advance	itut für Festkörperfor- t, Aristotle University of Thessaloniki, 54124 ed Institute for Materials
	HIGH PRESSURE RAMAN STUDY OF ARAMIDE FIBRES		
D3-P-THU-P2-4	Miss Niki Sorogka ¹ , Mr Fannis Sebros ¹ , Mr John Arvanitidi Ves ¹ , Mr John Parthenios ³ , Mr George Anagnostopoulos ³ , M Papagelis ⁵ ¹ Physics Department, Aristotle University of Thessaloniki, 54124 Thessalonik Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, ³ Institute of Greece, ⁴ Chemical Engineering Department, University of Patras, 26504 Patra, University of Patras, 26504 Patras, Greece	ii, Greece, ² Chemical Engino Chemical Engineering, FOF	eering Department, RTH/ICE-HT, 26500 Patras,
	HIGH PRESSURE RAMAN STUDY OF Dy3Ga5012		
D3-P-THU-P2-5	Mr Michail Margas ¹ , Mr John Arvanitidis ¹ , Mr Dimitrios Chi Mr Hideo Kimura ⁴ , Mr Gerasimos Kourouklis ² , Mr Sotirios V ¹ Physics Department, Aristotle University of Thessaloniki, 54124 Thessalon Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, ³ Physics D Greece, ⁴ National Institute for Materials Science, Sengen 1-2-1, Tsukuba, Ib	les ¹ niki, , Greece, ² Chemical En Department, University of F	ngineering Department,
	STRAIN ENGINEERING IN FEW LAYER MOLYBDENUM DISULF	IDE TWO DIMENSION	AL CRYSTALS
D3-P-THU-P2-6	Dr Dimitris Anestopoulos ¹ , Dr Spiros Grammatikopoulos ¹ , Dr Marino Arroyo ⁴ , Prof Kostas Papagelis ^{1,2} , Prof Costas Ga 'FORTH/ICE-HT, Patras, Greece, ² Dept. of Physics, Patras, Greece, ³ Dept. of 'Universitat Politecnica de Catalunya (UPC), Barchelona, Spain	aliotis ^{1,3} , <u>Dr John Par</u>	rthenios 1
	DC AND AC ELECTRICAL PROPERTIES OF GLASSES FROM TH	E SYSTEM Cu-Ag-Ge	-As-Se
D3-P-THU-P2-7	Ms. Vasilisa Zaikova ¹ , Ms. Nina Melnikova ¹ ¹ Ural Federal University, Institute of Natural Science and Mathematics, Ekat	terinburg, Russian Federat	ion
	PRESSURE INDUCED STRUCTURAL STUDY OF Sb2S3		
D3-P-THU-P2-8	<u>Utpal Dutta</u> ¹ , S Pallavi S Malavi ² , Subodha Sahoo ¹ , S Karma Bhabha Atomic Research Center, MUMBAI, India, ² Department of Physics, VDr., St. Louis, MO 63130		3. 1105, One Brookings
	INFLUENCE OF EXTREME DEFORMATION ON THE EVOLUTION AND MECHANICAL PROPERTIES	OF MICROSTRUCTUR	RE
D3-P-THU-P2-9	Dong-Hyun Ahn ¹ , Hyoung Seop Kim ² ¹ Korea Atomic Energy Research Institute, Daejeon, South Korea, ² Pohang University of Science and Technology, Pohang, South Korea		

	TIME: 13:00–15:00 ROOM: FOYER, E1/M1
P2	Thursday September 21, 2017
Γ2	Symposium D.3: Materials at extreme conditions: static or dynamic compression combined or not with low or high temperatures
	PRESSURE-ASSISTED PHOTOPOLYMERIZATION IN THE FULLERENE LAYERS OF THE MOLECULAR DONOR-ACCEPTOR COMPLEX {ZnDABCO}C60
D3-P-THU-P2-10	Dr K. P. Meletov ¹ , Dr J. Arvanitidis ² , Prof. G. A. Kourouklis ³ , <u>Dr D. Christofilos</u> ³ 'Institute of Solid State Physics RAS, Chernogolovka, Moscow region 142432, Russia, ² Physics Department, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, ³ Chemical Engineering Department, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece
	HP-MoO2: A HIGH-PRESSURE POLYMORPH OF MOLYBDENUM DIOXIDE
D3-P-THU-P2-11	Dr. Tobias Luedtke¹, Dr. Dennis Wiedemann¹, Dr. Ilias Efthimiopoulos ², Mr. Nils Becker³, Mr. Stefan Seidel⁵, Dr. Oliver Janka⁵, Prof. Dr. Rainer Poettgen⁵, Prof. Dr. Richard Dronkowski³,4, Prof. Dr. Monika Koch-Mueller², Prof. Dr. Martin Lerch¹
	¹ Institut für Chemie, Technische Universität Berlin, Straße des 17. Juni 135, 10623 Berlin, Germany, ² Deutsches GeoForschungsZentrum Potsdam, Telegrafenberg, 14473 Potsdam, Germany, ³ Institut für Anorganische Chemie, RWTH Aachen University, Landoltweg 1, 52056 Aachen, Germany, ⁴ Jülich-Aachen Research Alliance (JARA-HPC), RWTH-Aachen University, , Germany, 5Institut für Anorganische und Analytische Chemie, Universität Münster, Corrensstraße 30, 48149 Muenster, Germany



		TIME: 13:00-15:00	ROOM: FOYER, E1/M1
DΩ		Thursday September 21, 2017	
P2	Sym	posium D.6: Multi-Length-Scale Innovations in Damage Evolutior Characterization, Modeling, and Validation	n in Materials:
		CONTRIBUTION OF Cu-Ni PRECIPITATES TO HARDENING IN Bcc Fe MATRIX	
D6-P-THU-	-P2-1	Yankun dou ¹ , Lixia Jia ¹ , Xinfu He ¹ , Shi Wu, Dongjie Wang 1 China Institute Of Atomic Energy, China	

	TIME: 13:00-15:00 R00M: F0YER, E1/M1
P2	Thursday, September 21, 2017
FZ	Symposium D.8: Ab initio models for thermodynamic and elastic properties of advanced materials
D8-P-TUE-P1-1	AB INITIO STUDY OF STRUCTURE AND ELASTIC PROPERTIES OF HIGH ENTROPY ALLOYS
	Dr. Natalia Koval ¹ , Dr. Maite Alducin ¹ , Prof. Iñaki Juaristi ¹ , Dr. Ricardo Díez Muiño ¹ Centro De Física De Materiales, San Sebastian, Spain
D8-P-TUE-P1-2	INVESTIGATION OF STRUCTURAL, MECHANICAL AND STORAGE OF HYDROGEN PROPERTIES IN RENi4Mg (RE: Y AND LA): FIRST PRINCPLES CALCULATIONS
	Dr. Mostafa Kerim Benabadji¹¹¹¹Division Etude et Prédition des Matériaux,Unité de Recherche Matériaux et Energies Renouvelables, Tlemcen, Algeria
	MACHINE-LEARNING BASED POTENTIAL FOR IRON: PLASTICITY AND PHASE TRANSITION
D8-P-TUE-P1-3	<u>Dr Jean-Bernard Maillet</u> ¹ , Dr Christophe Denoual ¹ , Pr Gabor Csanyi ² ¹CEA-DAM/DIF, Arpajon, France, ²Engineering lab, Uninveristy of Cambridge, Cambridge, United Kingdom
	MATERIALS FOR ADDITIVE MANUFACTURING — HIGH-THROUGHPUT AB-INITIO PROPERTIES COMPUTATION
D8-P-TUE-P1-4	<u>Dr Alexander Perlov</u> ¹ , Dr Martin P. Persson ¹ , Prof Marcel H.F. Sluiter ² , Dr Victor Milman ¹ Dassault Systèmes Biovia, Cambridge, United Kingdom, ² Delft University of Technology, Delft, The Netherlands
	MULTI-SCALE SIMULATION OF SEGREGATION FORMATION ON THE GRAIN BOUNDARIES IN ALALLOYS
D8-P-TUE-P1-5	Mikhail Petrik ^{1,2} , Yuri Gornostyrev ^{1,2} , Andrey Kuznetsov ^{1,2} , Lidia Karkina ¹ ¹ Institute of Metal Physics Ural Branch RAS, Yekaterinburg, Russian Federation, ² Institute of Quantum Materials Science, Yekaterinburg, Russian Federation
	MECHANICAL PROPERTIES OF TI-Nb BASED ALLOYS BY DENSITY FUNCTIONAL THEORY CALCULATIONS
D8-P-TUE-P1-6	Accos Prof Christina Lekka¹, Dr J.J. Gutierrez-Moreno², Ms K.G. Ioannou¹, Assoc Prof D.G Papageorgiou¹, Prof G A Evangelakis¹ ¹University Of Ioannina, Ioannina, Greece, ²Tyndall National Institute, Cork, Ireland
	THEORETICAL INVESTIGATIONS ON ELECTRONIC, MAGNETIC AND STRUCTURAL PROPERTIES OF Mn3-X-C (X = Ga, Ge, Sn, In) COMPOUNDS
D8-P-TUE-P1-7	<u>Dr Vladimir Sokolovskiy</u> ¹ , Mr. Dmitriy Kopilov ¹ , Dr Mikhail Zagrebin ¹ , Prof Vasiliy Buchelnikov ¹ ¹ Chelyabinsk State University, Chelyabinsk, Russian Federation
	THE THERMODYNAMIC PROPERTIES AND BONDING FEATURE OF THE SOME B2 RARE-EARTH INTERMETALLIC COMPOUNDS: FIRST PRINCIPAL STUDY
D8-P-TUE-P1-8	SEKKAL Abdessamad School Preparatory Science And Techniques Algiers, Tlemcen, Algeria
	SELF-DIFFUSION AND IMPURITY-DIFFUSION OF Ag AND Pd: FIRST-PRINCIPLES CALCULATIONS
D8-P-TUE-P1-9	Sergiy Zamulko ¹ , Oleg Gorbatov ^{2,3} , Sergiy Sidorenko ⁴ , Andrei Ruban ² ¹ University Of Oslo, Oslo, Norway, ² KTH Royal Institute of Technology, Stockholm, Sweden, ³ Nosov Magnitogorsk State Technical University, Magnitogorsk, Russia, ⁴ National Technical University of Ukraine "Kyiv Polytechnic Institute", Kyiv, Ukraine
	STUDY OF AMYLOID STABILITY
D8-P-TUE-P1-10	Professor Snezana Zaric ^{1,2} , Dragan Ninkovic ¹ , Dusan Malenov ² , Predrag Petrovic ¹ ¹Texas A&m University At Qatar, Doha, Qatar, ²University of Belgrade, Belgrade, Serbia
	AB-INITIO AND CVM CALCULATIONS ON Fe-M SYSTEMS (M=TRANSITION METAL)
D8-P-TUE-P1-11	Prof. Luiz T. F. Eleno ¹ , Prof. Helena M. Petrilli ³ , Prof. Arles G. Rebaza ² , Prof. Leonardo Errico ² , Prof. Claudio G. Schon ⁴
	¹ Lorena School of Engineering, University Of Sao Paulo, Lorena, Brazil, ² Universidad de la Plata, La Plata, Argentine, ³ Physics Institute, University of Sao Paulo, Sao Paulo, Brazil, ⁴ Polytechnic School, University of Sao Paulo, Sao Paulo, Brazil
	CHARGED VACANCY DEFECTS IN THE AIN NANOSHEET: A FIRST-PRINCIPLES DFT STUDY
D8-P-TUE-P1-12	<u>Dr William Perez</u> ¹ , Dr Rafael Gonzalez ¹ , Msc Alvaro Gonzalez ¹ 'Universidad Del Norte, Barranquilla, Colombia

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
P2	Thursday, September 21, 2017
PZ	Symposium D.8: Ab initio models for thermodynamic and elastic properties of advanced materials
D8-P-TUE-P1-13	Ab-INITIO STUDY OF STRUCTURAL, MECHANICAL AND HYDROGEN STORAGE PROPERTIES IN RARE EARTH COMPOUNDS RENI4Mg (RE: Y AND La)
	Dr. Mostafa Kerim Benabadji Dr. Mostafa Kerim Benabadji Division of Materials Study and Prediction (DEPM), Research Unit for Materials and Renewable Energies (URMER) Abou Bekr Belkaid University Tlemcen, Tlemcen, Algeria, ² High School in Electrical and Energy Engineering, Oran, Algeria
	EFFECTIVE MODEL POTENTIALS: APPLICATION TO FERROIC MATERIALS
D8-P-TUE-P1-14	Carlos Escorihuela ¹ , Dr Jorge Íñiguez ^{1,2} ¹ Luxembourg Institute Of Science And Technology, Esch sur Alzette, Luxembourg, ² Institut de Ciència de Materials de Barcelona, Bellaterra, Spain
D8-P-TUE-P1-15	DOPANT-DEFECT INTERACTIONS IN Ge AND GeO2: DENSITY FUNCTIONAL THEORY CALCULATIONS
	Dr E. N. Sgourou ^{1,2} , Prof Alexander Chroneos ^{3,4} , Dr Yerassimos Panayiotatos ¹
	¹ Department of Mechanical Engineering, Piraeus University of Applied Sciences, Athens, Greece, ² Solid State Physics Section, University of Athens, Panepistimiopolis Zografos, Greece, ³ Department of Materials, Imperial College London, London SW7 2BP, United Kingdom, ⁴ Faculty of Engineering and Computing, Coventry University, Priory Street, Coventry CV1 5FB, United Kingdom

		TIME: 13:00-15:00	ROOM: FOYER, E1/M1
P2	Thursday, September 21, 2017		
PZ	Symposium D.10: Multiscale Modeling of Materials		
D10-II-P-THU-P2-1	THE EFFECTS OF RELATIVE POSITION ON THE INTERACTION AND INTERSTITIAL DISLOCATION LOOP IN BCC-Fe	BETWEEN EDGE DISL	OCATION
	Lixia Jia ¹ , Xinfu He ¹ , Shi Wu, Yankun Dou, Dongjie Wang, Volina Institute of Atomic Energy, Beijing, China	Wen Yang	
	SELF-MULTIPOLE-CONSISTENT TIGHT BINDING FOR MATER	RIALS MODELLING	
D10-II-P-THU-P2-2	Mr Max Boleininger ¹ , Dr. Andrew Horsfield ¹ ¹ Department of Materials, Imperial College London, London, United Kingd	om	
	PARTICLE MANIPULATION IN MICROFLUIDIC SYSTEMS		
D10-II-P-THU-P2-3	Using Peristaltic Waves Dr. Keyvan Sadeghy¹, Ms. Zahra Poursharifi¹		
	ATOMISTIC STRUCTURE OF CALCIUM SILICATE HYDRATE IN	CEMENTITIOUS SYSTE	MS
D10-II-P-THU-P2-4	Aslam Kunhi Mohamed ¹ , Dr. Sandra Galmarini ² , Prof. Pau Prof. Karen Scrivener ¹ , Prof. Stephen Parker ³	ıl Bowen¹,	
	¹ EPFL, Lausanne, Switzerland, ² EMPA, Dubendorf, Switzerland, ³ University		Inited Kingdom
	ATOMIC-SCALE COMPUTATIONAL DESIGN OF HYDROPHOBIC FOR AEROSPACE APPLICATIONS	MATERIALS	
D10-II-P-THU-P2-5	Prof. Krzysztof Jan Kurzydlowski ^{1,2} , MSc. Kamil Czelej ² , PhD. Piotr Spiewak ² , MSc. Mateusz Grybczuk ² , DSc. Toma	MSc. Marcin Zemla², sz Wejrzanowski²	
	¹ Technology Partners Foundation, Warsaw, Poland, ² Warsaw University of Faculty of Materials Science and Engineering, Warsaw, Poland	Technology,	
	MULTISCALE MODELLING OF GRADIENT NANOSTRUCTURES	MATERIALS WITH GR	AIN SIZE GRADIENT
D10-II-P-THU-P2-6	Associate Professor Xu Zhang ¹Soutwest Jiaotong University, Chengdu, China		
	VHDL-AMS MODELING OF A STERLING MACHINE		
D10-II-P-THU-P2-7	<u>Doctors Fatima Zohra Baouche</u> ¹ , Master student Benatn ¹ University Djilali Bounaama Khemis Miliana, Route Theniet Elhad; 44225,		
D10-II-P-THU-P2-8	HYBRID ATOMISTIC-CONTINUUM MODELLING OF LIQUID-LI	QUID INTERFACE	
	Dr. Angelo Damone ¹ ¹ University Of Brescia, Brescia, Italy		

		TIME: 13:00-15:00	ROOM: FOYER, E1/M1
P2	Thursday, September 2	21, 2017	
PZ	Symposium E.4: Materials for Nuclear Er	nergy (fusion, fiss	ion)
E4-P-THU-P2-1	MULTIWAVELENGTH RAMAN MICROSCOPY STUDY OF LABOR NATIVE OXIDES AND W-D BONDS	RATORY TUNGSTEN SA	MPLES:
	Dr. Cedric Pardanaud ¹ , Dr. Y. Ferro ¹ , Dr Z. Piazza ¹ , G. Giac Dr H. Hijazi ¹ , Dr. L. Couedel ¹ , Dr C. Arnas ¹ , Pr. P. Roubin ¹ , E Dr K. B. Roh ² , Dr D. Dellasega ³ , ⁴ , Dr. A. Pezzoli ³ , Dr. M. Pa Dr. M. I. Rusu ⁵ , ⁶ , Dr. P. Dinca ⁵ , Dr. M. Lungu ⁵ 'Aix-marseille Université, Marseille, France, ² Seoul National University, Gr	Or T. Oda², Dr. G. H. Kir ssoni³, Pr. C. P. Lungu	n ² , Dr Y. Jin ² , ⁵ , Dr. C. Porosnicu ⁵ ,
	Politecnico di Milano, Milano, Italy, ⁴ Istituto di Fisica del Plasma "P.Caldiro ⁵ eNational Institute for Laser, Plasma and Radiation Physics, Magurele-Bu Optoelectronics , Magurele-Bucharest, Romania	la", Consiglio Nazionale del	le Ricerche, Milano, Italy,
F/ D TIII D0 0	RESPONSE OF TUNGSTEN AS PLASMA FACING MATERIAL T	O TRANSIENT THERMA	L LOADS
E4-P-THU-P2-2	Marius Wirtz ¹ , Jochen Linke ¹ , Thorsten Loewenhoff ¹ , Gei ¹ Forschungszentrum Jülich Gmbh, Jülich, Germany, ² SCK•CEN, The Belgia		
	CORROSION BEHAVIOUR AND MICROSTRUCTURAL STABILIT STEELS EXPOSED TO OXYGEN-CONTAINING MOLTEN LEAD	Y OF ALUMINA-FORM	NG AUSTENITIC
E4-P-THU-P2-3	Hao Shi ¹ , Dr. Adrian Jianu ¹ , Dr. Alfons Weisenburger ¹ , Ch Dr. Renate Fetzer ¹ , Prof. Georg Mueller ¹ ¹ Karlshuhe Institute of Technology, Eggenstein-Leopoldshafen, Germany	ongchong Tang¹, Dr. A	nnette Heinzel¹,
	NEUTRON IRRADIATED HIGH Cu-CONTAINING RPV STEELS		
E4-P-THU-P2-4	Dr. Jarmila Degmova ¹ , MSc. Stanislav Pecko ¹ , Dr. Julius I Dr. Stanislav Sojak ¹ , Dr. Martin Petriska ¹ , Prof. Vladimir Sl ¹ Inpe Fei Stu, Bratislava, Slovakia	Dekan¹, Dr. Jana Sime lugen¹	g Veternikova ¹ ,
	THERMAL PROPERTIES OF NOVEL WC-Cu CERMETS FOR FU	ISION APPLICATIONS	
E4-P-THU-P2-5	Miss Marta Dias¹, F. Guerreiro¹, Elena Tejado², U.V. Mardo J.Y. Pastor², P. A. Carvalho¹.⁵, E. Alves¹ 'Instituto de Plasmas e Fusão Nuclear, Instituto Superior Técnico, Universi de Ciencia de Materiales-CIME, Universidad Politécnica de Madrid, Madrid Técnico, Lisbon, Portugal, ⁴LNEG, Laboratório Nacional de Energia e Geold Técnico, Universidade de Lisboa, Lisbon, Spain	dade de Lisboa, Lisbon, Por d, Spain, ³Departamento de	tugal, ² Departamento Física, Instituto Superior
	DEFECT PROCESSES OF TI3AC2 MAX PHASES: INSIGHTS FR	OM ATOMISTIC MODEL	LING
E4-P-THU-P2-6	<u>Dr Nikolaos Kelaidis</u> ¹ , Dr Stavros-Richard G. Christopoul Dr. Micheal E. Fitzpatrick ¹ , Dr Alexander Chroneos ^{1,2}	os¹, Dr David C. Parfit	t ¹ ,
	¹ Faculty of Engineering, Environment and Computing, Coventry University ² Department of Materials, Imperial College London, South Kensington Car		
	GRAIN BOUNDARY SELF-DIFFUSION IN FLUORITE-STRUCTU	JRED OXIDES	
E4-P-THU-P2-7	Dr. Stavros-Richard G. Christopoulos¹, Dr. David C. Parfitt Dr. Micheal E. Fitzpatrick¹, Dr. Nikolaos Kelaidis ¹, Dr. Ale		
	Faculty of Engineering, Environment and Computing, Coventry, United Kir ² Department of Materials, Imperial College London, South Kensington Car	ngdom, mpus, London SW7 2AZ, Uni	ted Kingdom
	MODELLING MeV ION IMPLANTATION IN ALPHA-Fe WITH OF	BJECT KINETIC MONTE	CARLO
E4-P-THU-P2-8	Dr Juan Pablo Balbuena ¹ , A. Sand ² , C. Björkas ² , K. Nordlı Prof. Dr. Maria José Caturla ¹	und², R. Schäublin³,	
	Dept. Física Aplicada, Facultat de Ciencies, Universitat d'Alacant, Alacant Post-office box 43, FIN-00014, Helsinki, Finland, Dept. of Materials, ETH		
E4-P-THU-P2-9	ASSURANCE OF SAFE AND LONG TERM OPERATION OF WW PRESSURE VESSEL INTERNALS	ER-440 NUCLEAR REA	CTOR
	Bc. Ondřej Buršík ¹ , Ing. Radim Kopriva ¹ , Ing. Milos Kytka ¹ ÚJV Řež, a.s., Husinec, Czech Republic, ² FNSPE CTU in Prague, Prague, C.		rna²
	GRAIN BOUNDARY DIFFUSION OF Ag AND Pd IN SIC		
E4-P-THU-P2-10	David Navarro ¹ , Felix Cancino ¹ , <u>Dr Eddie Lopez-honorato</u> ¹ Cinvestav, Saltillo, Mexico	<u>o</u> 1	

	TIME: 13:00-15:00 R00M: F0YER, E1/M1
P2	Thursday, September 21, 2017
1 4	Symposium E.4: Materials for Nuclear Energy (fusion, fission)
	PRECIPITATION IN ZIRCONIUM ALLOYS: CHARACTERIZATION METHODS
E4-P-THU-P2-11	Mr Zaheen Shah ¹ , Professor Joseph Robson ¹ , Professor Michael Preuss ¹ , Mr Magnus Limbäck ² , Mr Mattias Alm ³
	¹ University Of Manchester, Manchester, United Kingdom, ² Westinghouse, Västeräs, Sweden, ³ AB Sandvik Materials Technology, Sandviken, Sweden
	ESTIMATION OF THE TRITIUM RETENTION IN ITER TUNGSTEN DIVERTOR TARGET USING MACROSCOPIC RATE EQUATION SIMULATIONS
E4-P-THU-P2-12	Christian Grisolia ^{1,2} , E.A. Hodille ³ , E. Bernard ¹ , S. Markelj ⁴ , J. Mougenot ⁵ , C. Becquart ⁶ , R. Bisson ³
	¹Cea - France, Saint Paul Lez Durance, France, ²National Research Nuclear University "MEPhl", Moscow, Russia, ³Aix-Marseille University, Marseille, France, ⁴Jozef Stefan Institute,, Ljubljana, Slovenia, ⁵LSPM, Villetaneuse, France, ⁴Lille University, UMET, Villeneuve d'Ascq, France
	MEV ELECTRON-BEAM IRRADIATION OF TUNGSTEN FOR VACANCY CREATION
E4-P-THU-P2-13	Dr. Fabio Borgognoni ¹ , Dr. Matej Mayer ² , Dr. Luigi Picardi ¹ , Dr. Monia Vadrucci ¹ , Mr. Mikhail Zibrov ^{2,3}
	¹ENEA, Frascati, Italy, ²Max-Planck-Institut für Plasmaphysik, Garching, Germany, ³Ghent University, Ghent, Belgium

	TIME: 13:00-15:00 ROOM: FOYER, E1/M1
P2	Thursday, September 21, 2017
1 2	Symposium E.6: Advanced Materials for Transport Applications
E/ D.TIII Do 4	MICROSTRUCTURAL AND MECHANICAL PROPERTIES OF FRICTION STIR WELDED 5083 ALUMINUM ALLOYS REINFORCED WITH MICRO- AND NANO-PARTICLES
E6-P-THU-P2-1	Dr. Axel von Hehl ^{1,2} , Anastasiya Egorova ^{1,2} ¹ University of Bremen, Bremen, Germany, ² IWT Stiftung Institut für Werkstofftechnik, Bremen, Germany
	INTERNAL STRUCTURING IN ADDITIVELY MANUFACTURED METAL PARTS: A THEORETICAL STUDY ON POTENTIALS AND APPROACHES BASED ON THE BINDER JETTING PROCESS
E6-P-THU-P2-2	<u>DrIng. Dirk Lehmhus</u> ¹ , DrIng. Axel von Hehl ² , Ramil Basyrov ¹ , Maurice Bethke ¹ , Robert Koesters ¹ , Prof. DrIng. Matthias Busse ³ , Prof. DrIng. Hans-Werner Zoch ²
	¹ University Of Bremen, Bremen, Germany, ² Stiftung Institut für Werkstofftechnik, Bremen, Germany, ³ Fraunhofer Institute for Manufacturing Technology and Advanced Materials (IFAM), Bremen, Germany
	APPROACH TO A FASTER ALLOY DEVELOPMENT FOR ADDITIVE MANUFACTURING USING MEDIUM MANGANESE STEEL
E6-P-THU-P2-3	Lena Heemann ¹ , Daniel Knoop ¹ , Dr. Axel von Hehl ¹ , Farhad Mostaghimi ¹ , Dr. Volker Uhlenwinkel ¹ , Bernd Schob ² , Frank Schubert ² , Prof. Dr. Lothar Kroll ² "IWT Bremen, Bremen, Germany, ² TU Chemnitz, SLK, Chemnitz, Germany
	MICROSTRUCTURAL AND MECHANICAL PROPERTIES OF FRICTION STIR WELDED 5083 ALUMINUM ALLOYS REINFORCED WITH MICRO- AND NANO-PARTICLES
E6-P-THU-P2-4	Dr. Dimitrios Dragatogiannis¹, Ioannis Pantelis², Panagiotis Karakizis², Irene Kanellopoulou¹, Prof. Dimitrios Pantelis², Prof. Costas Charitidis¹
	¹Research Unit of Advanced, Composite, Nano-Materials and Nanotechnology, School of Chemical Engineering, National Technical University of Athens, Athens, Greece, ²Shipbuilding Technology Laboratory, School of Naval Architecture and Marine Engineering, National Technical University of Athens, 9 Heroon, Polytechniou st., Zografos, Athens, GR-157 80, Greece
	HEAT TREATMENT PROCESS FOR LASER ADDITIVE MANUFACTURED, HIGH-STRENGTH ALUMINUM STRUCTURES
E6-P-THU-P2-5	<u>Daniel Knoop</u> ¹ , Eric Gärtner ² , Gunther Mohr ³ , Dr. Axel von Hehl ¹ , Prof. Dr. Hans-Werner Zoch ¹ 'Stiftung Institut für Werkstofftechnik Bremen, Bremen, Germany, ² Universität Bremen, Bremen, Germany, ³ Technische Universität Hamburg, Hamburg, Germany

	TIME: 13:00-15:00 R00M: F0YER, E1/M1
P2	Thursday, September 21, 2017
ГД	Symposium F.2: Biomaterials for therapeutic delivery
F2-P-THU-P2-1	NANOEMULSIONS BY NATURAL COMPOUNDS: AN INNOVATIVE APPROACH TO BRAIN DELIVERY
	Dr Federica Rinaldi¹, Dr Patrizia Nadia Hanieh², Professor Elena Del Favero³, Professor Maria Carafa², Dr Carlotta Marianecci²
	¹ Fondazione Istituto Italiano di Tecnologia, Center for Life Nano Science@Sapienza, Roma, Italy, ² Department of Drug Chemistry and Technology, University of Rome "Sapienza", Rome, Italy, ³ Department of Medical Biotechnologies and Traslational Medicine, University of Milan, Milan, Italy
	COMPARING TRANSFECTION EFFICACY BETWEEN LIPOPLEXES AND GOLD NANOPARTICLES
F2-P-THU-P2-2	Professor Jesus Santamaria¹, Ms Maria Encabo-Berzosa, Ms Maria Sancho-Albero, Dr Victor Sebastian, Dr Silvia Irusta, Dr Manuel Arruebo, Dr Maria Pilar Martin Duque ¹Universidad De Zaragoza, Zaragoza, Spain
	ION-DOPED MESOPOROUS BIOACTIVE GLASS NANOPARTICLES FOR WOUND HEALING APPLICATIONS
F2-P-THU-P2-3	Alessandra Bari ¹ , Sonia Fiorilli ¹ , Carlotta Pontremoli ¹ , Joanna Shepherd ² , Anthony J. Bullock ³ , Sheila MacNeil ³ , Chiara Vitale-Brovarone ¹ ¹ Department of Applied Science and Technology, Politecnico di Torino, Corso Duca degli Abruzzi ²⁴ , ¹ 0 ¹² 9, Torino, ² School of Clinical Dentistry, The University of Sheffield, ¹ 9 Claremont Crescent, Sheffield S ¹ 0 ² TA, ³ Department of Engineering Materials, Kroto Research Institute, University of Sheffield, Broad Lane, Sheffield S ³ 7HQ,
	SYNTHESIS, CHARACTERIZATION AND DRUG RELEASE PROFILE OF A THREE-STIMULI-SENSITIVE HOLLOW NANOCONTAINER
F2-P-THU-P2-4	Gianluca Toniolo ¹ , ² , Dr. Eleni Efthimiadou ¹ , ³ , Dr. George Kordas ¹ , Dr. Chryssostomos Chatgilialoglu ⁴
	¹National Center for Scientific Research Demokritos, INN, Athens, Greece, ²Università degli Studi di Ferrara, Ferrara, Italy, ³National and Kapodistrian University of Athens, Panepistimioupoli, Zografou, Athens, Greece, ⁴Consiglio Nazionale delle Ricerche (CNR), ISOF, Bologna, Italy
	MESOPOROUS GLASSES DOPED WITH IONS: BIOCOMPATIBILITY, OSTEOGENIC ACTIVITY AND ANTIBACTERIAL EFFECT
F2-P-THU-P2-5	Carlotta Pontremoli¹, Alessandra Bari¹, Giorgio Iviglia², Elisa Torre², Clara Cassinelli², Marco Morra², Sonia Fiorilli¹, Chiara Vitale-Brovarone¹ ¹DISAT, Politecnico Di Torino, Torino, ²Nobil Bio Ricerche Srl, Portacomaro, AT
	SYNTHESIS AND MODIFICATION OF POROUS CARBON NANOPARTICLES FOR THERAPEUTIC APPLICATIONS
F2-P-THU-P2-6	Dr. Dimitra Giasafaki ¹ , Mr. Miguel Gisbert ^{2 3} , Dr. Georgia Charalambopoulou ¹ , Ms. Lamprini Boutsi-ka ¹ , Dr. Miguel Manzano ^{2 , 3} , Prof. María Vallet-Regí ^{2 , 3} , Dr. Theodore Steriotis ¹
	¹ National Center For Scientific Research "Demokritos", Agia Paraskevi Attikis, Greece, ² Departamento de Química Inorgánica y Bioinorgánica, Universidad Complutense de Madrid, Madrid, Spain, ³ Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Madrid, Spain
	NON-INVASIVE IMAGING OF PH IN BACTRIALLY INFECTED TISSUE ENGINEERED SKIN MODELS; IMPLICATIONS FOR PAYLOAD RELEASE FROM MESOPOROUS THERAPEUTIC GLASS NANOPARTICLES.
F2-P-THU-P2-7	Dr Anthony Bullock¹, Marcela Garcia¹, Dr Joey Shepherd¹, Alessandra Bari², Manuel Gisbert-Garazán³, Dr Manuel Manzano³, Professor Maria Vallet-Regi³, Professor Sonia Fiorilli², Professor Chiara Vitale-Brovarone², Professor Sheila MacNeil¹
	¹ University Of Sheffield, Broad Lane, United Kingdom, ² Politecnico di Torino, Torino, Italy, ³ Complutense University of Madrid, Madrid, Spain
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F2-P-THU-P2-10	Associate Professor Omid Mirzaee ¹ , Bs student Maryam Jahanaray ¹ ¹Faculty Of Materials & Metallurgical Engineering Of Semnan University, Semnan, Iran

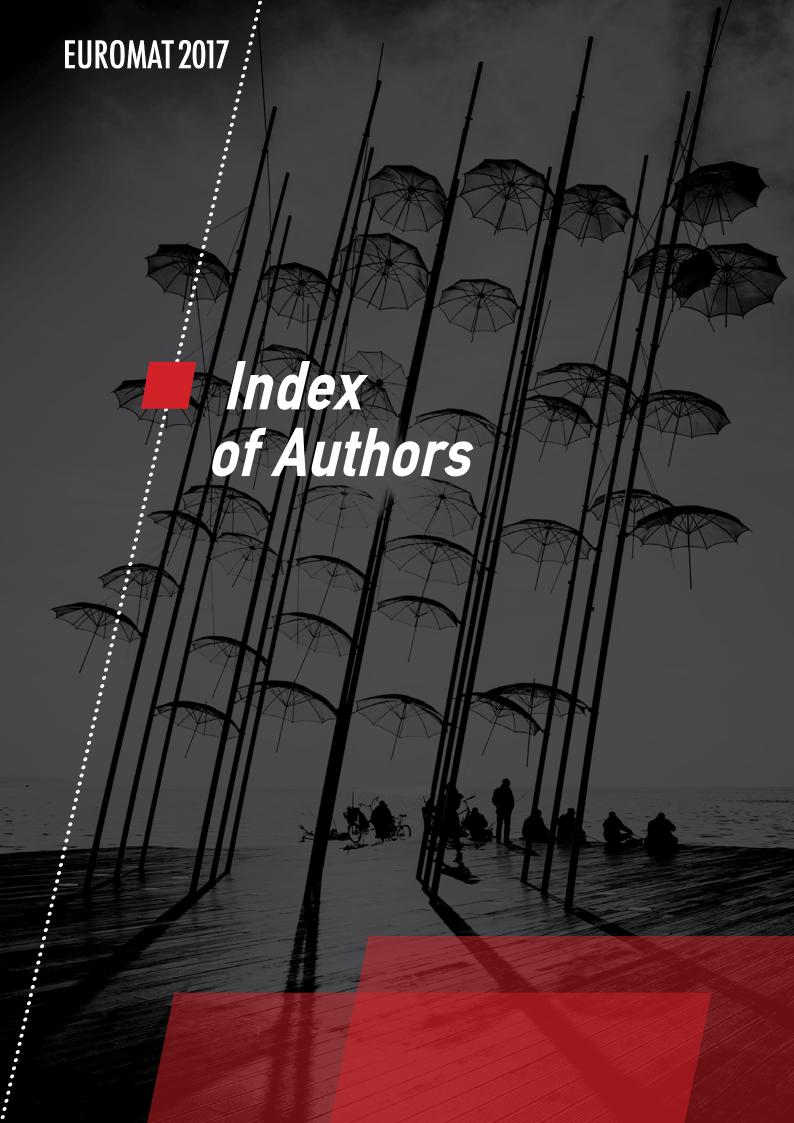
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	STUDY OF THE INTERACTION OF WATER ON HYBRID SILANIZED POROUS SILICON BY ENVIRONMENTAL SEM		
F3-P-THU-P2-2	Chloé Rodriguez ¹ , Dr Vicente Torres Costa ¹ , María Cascajo Castresana ² , Dr Sylvie Morin ² , Dr Alexander Bittner ² , Dr Miguel Manso ¹ ¹ Universidad Autónoma Of Madrid, Madrid, Spain, ² C.I.C. Nanogune, San Sebastián, Spain		
	TITANIA DOPED Zno: IMPROVING THE LIFETIME AND STABILITY OF Zno BIOMEDICAL DEVICES		
F3-P-THU-P2-3	MSc Rehab Ramadan ¹ , MSc Rosalía Delgado Carrascón ¹ , Phd Maria D Ynsa Alcalá ¹ , PhD Vicente Torres Costa ¹ , Phd Miguel Manso Silvan ¹ 1 Universidad Autónoma De Madrid, Madrid, Spain		
	HYBRID HYDROXYAPATITE-POLYETHYLENE OXIDE COATING ON YTTRIA STABILIZED ZIRCONIA (3Y-TZP) DISCS		
F3-P-THU-P2-4	Professor Athena Tsetsekou ¹ , student Panagiotis Karayannis ¹ , PHD student Fotini Petrakli ¹ , PhD student Giorgos Stergiou ¹		
	'School of Mining and Metallurgical Engineering, National Technical University of Athens, Athens, Greece PAIR DISTRIBUTION FUNCTION ANALYSIS OF SYNTHESISED FLUORAPATITE IMPLANT COATINGS FOR USE IN REGENERATIVE DENTISTRY		
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	ADDITIVE MANUFACTURING OF PERSONALISED BIOFUNCTIONAL SCAFFOLDS FOR TISSUE REGENERATION		
F3-P-THU-P2-6	Dr. Despoina Brasinika ^{1,2,} Eleni Gartzou ¹ , <u>Dr. Elias Koumoulos</u> ^{1,2} , Prof. Costas Charitidis ¹ ¹ Research Unit of Advanced, Composite, Nano-Materials and Nanotechnology, School of Chemical Engineering, National Technical University of Athens, http://nanolab.chemeng.ntua.gr/, Athens, Greece, ² BioGen3D-New 3D Printing Technologies, Technological Cultural Park Lavrion, http://biogen3d.gr, Lavrion, Greece		
	CONTROLLING ZINC OXIDE NANOPARTICLES BEHAVIOR IN INORGANIC AND BIOLOGICAL FLUIDS		
F3-P-THU-P2-7	MD Eng. Bianca Dumontel ¹ , MD Biol. Marta Canta ¹ , MD Biol. Luisa Racca ¹ , Dr. Giancarlo Canavese ¹ , Prof. Valentina Cauda ¹		
	Department of Applied Science and Technology (DISAT), Politecnico Di Torino, Turin, Italy		

	TIME: 13:00-15:00 R00M: F0YER, E1/M1
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FZ	Symposium F.6: Bio-Inspired Materials: From structural materials towards multi-functional biomaterials
	INFLUENCE OF THE THERMAL TREATMENT AND PARTICLE SIZE OF Ce-TZP AND Y-TZP MIXTURES, FOR DENTAL APPLICATION
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	¹ 1Center for Microelectromechanical Systems (CMEMS-UMinho) University of Minho, Guimarães, Portugal, ² 2Department of Mechanical Engineering (EMC) Federal University of Santa Catarina (UFSC), Florianópolis, Brazil, ³ 3Center for Research on Dental Implants (CEPID), School of Dentistry (ODT), Federal University of Santa Catarina (UFSC), Florianópolis, Brazil
	CHARACTERIZATION OF TERNARY TITANIUM BASED ALLOYS FOR ADVANCE BIOMEDICAL APPLICATIONS
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	COST EFFECTIVE NATURAL MATERIALS FOR REMEDIATION OF HEAVY METALS
F6-P-THU-P2-3	Prof. Ibrahim Medhat ¹
	'Spectroscopy Department, National Research Centre (NRC), Dokki, Cairo, Egypt
	IMPROVED MECHANICAL PROPERTIES OF DIOPSIDE CERAMICS SYNTHESIZED FROM COPRECIPITATION-DERIVED POWDERS
F6-P-THU-P2-4	<u>Dr. Noriyuki Iwata</u> ^{1,2} , Dr. Shin-ichi Tanaka ² , Dr. Geun-hyoung Lee ³ , Dr. Norimichi Kawashima ⁴
F0-F-1NU-F2-4	¹ Department of Materials System Engineering, National Institute of Technology, Kurume College, Japan, ² Department of Materials Science and Engineering, National Institute of Technology, Kurume College, Japan, ³ Division of Advanced Materials Engineering, IT Convergence College of Components and Materials Engineering, Dong-eui University, Busan, South Korea, ⁴ International Institute for Science and Education, International Pacific University, Yokohama, Japan

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	lational Research Council, Institute Of Science And Technology For Ceramics, Faenza, Italy					
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	¹ Functional Materials, Saarland University, , Germany, ² Institut Jean Lamous State Chemistry, Saarland University, Germany, ⁴ Department of Clinical Res					

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Beck, James	A6-O-THU-PM2
Beck, Lucile	E4-0-WED-PM1.
Beck, Robin Beck, Tilmann	A6-I/K-THU-PM2 C4-O-WED-AM2, B11-O-TUE-AM2, B11-O-MON-PM1, B11-O-TUE-AM2,
ELIDOMAT2017	B9-0-THU-PM2

Becker, Hanka	C3-P-THU-P2-11
Becker, Klaus-Dieter	A9-H-FRI-PM1
Becker, Nils	D3-P-THU-P2-11 E4-P-THU-P2-12
Becquart, C.S.	E4-P-THU-PZ-TZ
Becquart, Charlotte	D9-0-WED-AM2
Becquart, Charlotte S.	D9-P-TUE-P1-17
Bedir, Fevzi	B10-0-THU-PM1
Bednarcik, Jozef	B8-0-WED-PM1
Bedzyk, Michael	D1-0-WED-PM2
Beeh, Elmar	B2-0-M0N-AM2
Beersaerts, Glenn	H2-O-MON-PM1
Behm, Jürgen	E2-P-TUE-P1-24
Bei, Hongbin	D8-O-THU-AM2
Bein, Thomas	F3-I/K-THU-AM2 C9-H-THU-AM2
Bejjani, Roland Bekheet, Maged	A7-I-P-TUE-P1-1
	D2-P-TUE-P1-2,
Belabbas, Imad	D2-P-TUE-P1-13
Beladi, Hossein	B1-O-TUE-PM2, B1-H-TUE-PM1, B1-O-THU-PM2
Belamie, Emmanuel	F1-O-MON-PM2, F6-O-FRI-PM1
Bele, Eral	F6-O-THU-PM1, B6-O-TUE-PM1
Bele, Marjan	D2-H-MON-PM2
Beleniotis, Petros	C11-O-THU-PM2
Belkacemi, Lisa	D9-0-WED-PM1
Belkessa, Brahim	C6-P-TUE-P1-3, B10-P-TUE-P1-4
Bella, Federico	A7-II-P-THU-P2-24
Bellanger, Pierre	E3-0-TUE-PM2
Bellarosa, Renato	A6-0-FRI-AM2
Bellas, Illias	B1-0-TUE-AM2
BELLET, Michel	C3-P-THU-P2-9
Belli, Matteo	C11-O-THU-AM2,
	C11-P-THU-P2-17
Bellido, Elena	C11-P-THU-P2-17 F3-0-THU-PM1
Bellido, Elena Bellouard, Yves	F3-O-THU-PM1 C2-I/K-MON-PM1
Bellouard, Yves Belmonte, Manuel	F3-O-THU-PM1 C2-I/K-MON-PM1 C3-O-FRI-PM1
Bellouard, Yves	F3-0-THU-PM1 C2-I/K-MON-PM1 C3-0-FRI-PM1 C1-0-FRI-AM2
Bellouard, Yves Belmonte, Manuel	F3-O-THU-PM1 C2-I/K-MON-PM1 C3-O-FRI-PM1
Bellouard, Yves Belmonte, Manuel	F3-0-THU-PM1 C2-I/K-MON-PM1 C3-0-FRI-PM1 C1-0-FRI-AM2 B3-0-MON-PM2, C10-P-THU-P2-4, B4-0-THU-PM2,
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry	F3-0-THU-PM1 C2-I/K-MON-PM1 C3-0-FRI-PM1 C1-0-FRI-AM2 B3-0-MON-PM2, C10-P-THU-P2-4,
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry	F3-0-THU-PM1 C2-I/K-MON-PM1 C3-0-FRI-PM1 C1-0-FRI-AM2 B3-0-MON-PM2, C10-P-THU-P2-4, B4-0-THU-PM2, B4-P-THU-P2-3,
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Belyakov, Andrey	F3-0-THU-PM1 C2-I/K-MON-PM1 C3-0-FRI-PM1 C1-0-FRI-AM2 B3-0-MON-PM2, C10-P-THU-P2-4, B4-0-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Belyakov, Andrey Ben Daly, Hachmi	F3-0-THU-PM1 C2-I/K-MON-PM1 C3-0-FRI-PM1 C1-0-FRI-AM2 B3-0-MON-PM2, C10-P-THU-P2-4, B4-0-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 D10-0-WED-PM2
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Belyakov, Andrey Ben Daly, Hachmi BEN FRAJ, Boutheina	F3-0-THU-PM1 C2-I/K-MON-PM1 C3-0-FRI-PM1 C1-0-FRI-AM2 B3-0-MON-PM2, C10-P-THU-P2-4, B4-0-THU-P2-3, C10-H-THU-PM1 D10-0-WED-PM2 B11-0-WED-PM2 B11-0-WED-PM2
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Belyakov, Andrey Ben Daly, Hachmi BEN FRAJ, Boutheina BEN HAJ SLAMA, Meriem	F3-0-THU-PM1 C2-I/K-MON-PM1 C3-0-FRI-PM1 C1-0-FRI-AM2 B3-0-MON-PM2, C10-P-THU-P2-4, B4-0-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 D10-0-WED-PM2 B11-0-MON-PM2 B11-0-WED-PM2 B10-0-WED-AM2 D9-0-TUE-PM2, B10-0-WED-AM2
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Belyakov, Andrey Ben Daly, Hachmi BEN FRAJ, Boutheina BEN HAJ SLAMA, Meriem Ben Saada, Fatma Ben Saada, Mariem Benabadji, Mostafa Kerim	F3-O-THU-PM1 C2-I/K-MON-PM1 C3-O-FRI-PM1 C1-O-FRI-AM2 B3-O-MON-PM2, C10-P-THU-P2-4, B4-O-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 D10-O-WED-PM2 B11-O-MON-PM2 B11-O-WED-PM2 B10-O-WED-AM2 D9-O-TUE-PM2, B10-O-WED-AM2 D8-P-TUE-P1-2, D8-P-TUE-P1-13
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Belyakov, Andrey Ben Daly, Hachmi BEN FRAJ, Boutheina BEN HAJ SLAMA, Meriem Ben Saada, Fatma Ben Saada, Mariem Benabadji, Mostafa Kerim Bencok, Peter	F3-O-THU-PM1 C2-I/K-MON-PM1 C3-O-FRI-PM1 C1-O-FRI-AM2 B3-O-MON-PM2, C10-P-THU-P2-4, B4-O-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 D10-O-WED-PM2 B11-O-MON-PM2 B11-O-WED-PM2 B10-O-WED-AM2 D9-O-TUE-PM2, B10-O-WED-AM2 D8-P-TUE-P1-2, D8-P-TUE-P1-13 A8-O-MON-PM1
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Belyakov, Andrey Ben Daly, Hachmi BEN FRAJ, Boutheina BEN HAJ SLAMA, Meriem Ben Saada, Fatma Ben Saada, Mariem Benabadji, Mostafa Kerim	F3-O-THU-PM1 C2-I/K-MON-PM1 C3-O-FRI-PM1 C1-O-FRI-AM2 B3-O-MON-PM2, C10-P-THU-P2-4, B4-O-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 D10-O-WED-PM2 B11-O-MON-PM2 B11-O-WED-AM2 D9-O-TUE-PM2, B10-O-WED-AM2 D8-P-TUE-P1-2, D8-P-TUE-P1-13 A8-O-MON-PM1 C1-I/K-WED-PM1
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Belyakov, Andrey Ben Daly, Hachmi BEN FRAJ, Boutheina BEN HAJ SLAMA, Meriem Ben Saada, Fatma Ben Saada, Mariem Benabadji, Mostafa Kerim Bencok, Peter	F3-O-THU-PM1 C2-I/K-MON-PM1 C3-O-FRI-PM1 C1-O-FRI-AM2 B3-O-MON-PM2, C10-P-THU-P2-4, B4-O-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 D10-O-WED-PM2 B11-O-MON-PM2 B11-O-WED-PM2 B10-O-WED-AM2 D9-O-TUE-PM2, B10-O-WED-AM2 D8-P-TUE-P1-2, D8-P-TUE-P1-13 A8-O-MON-PM1
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Belyakov, Andrey Ben Daly, Hachmi BEN FRAJ, Boutheina BEN HAJ SLAMA, Meriem Ben Saada, Fatma Ben Saada, Mariem Benabadji, Mostafa Kerim Bencok, Peter Bender, Marcus	F3-O-THU-PM1 C2-I/K-MON-PM1 C3-O-FRI-PM1 C1-O-FRI-AM2 B3-O-MON-PM2, C10-P-THU-P2-4, B4-O-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 D10-O-WED-PM2 B11-O-MON-PM2 B11-O-WED-PM2 B10-O-WED-AM2 D9-O-TUE-PM2, B10-O-WED-AM2 D8-P-TUE-P1-13 A8-O-MON-PM1 C1-I/K-WED-PM1,
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Belyakov, Andrey Ben Daly, Hachmi BEN FRAJ, Boutheina BEN HAJ SLAMA, Meriem Ben Saada, Fatma Ben Saada, Mariem Benabadji, Mostafa Kerim Bencok, Peter Bender, Marcus Benedetti, Francesco Benevides, Rodrigo Benghuzzi, Hamed	F3-O-THU-PM1 C2-I/K-MON-PM1 C3-O-FRI-PM1 C1-O-FRI-AM2 B3-O-MON-PM2, C10-P-THU-P2-4, B4-O-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 D10-O-WED-PM2 B11-O-MON-PM2 B11-O-WED-PM2 B10-O-WED-AM2 D9-O-TUE-PM2, B10-O-WED-AM2 D8-P-TUE-P1-2, D8-P-TUE-P1-13 A8-O-MON-PM1 C1-I/K-WED-PM1 D1-O-TUE-PM1, D1-P-TUE-P1-17 D10-O-THU-PM2 F1-O-TUE-M2
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Belyakov, Andrey Ben Daly, Hachmi BEN FRAJ, Boutheina BEN HAJ SLAMA, Meriem Ben Saada, Fatma Ben Saada, Mariem Benabadji, Mostafa Kerim Bencok, Peter Bender, Marcus Benedetti, Francesco Benevides, Rodrigo Benghuzzi, Hamed Bengoechea, Miguel	F3-O-THU-PM1 C2-I/K-MON-PM1 C3-O-FRI-PM1 C1-O-FRI-AM2 B3-O-MON-PM2, C10-P-THU-P2-4, B4-O-THU-PP2, B4-P-THU-P2-3, C10-H-THU-PM1 D10-O-WED-PM2 B11-O-WED-PM2 B11-O-WED-AM2 D9-O-TUE-PM2, B10-O-WED-AM2 D8-P-TUE-P1-1, D8-P-TUE-P1-13 A8-O-MON-PM1 C1-I/K-WED-PM1 D1-O-TUE-PM1, D1-P-TUE-P1-17 D10-O-THU-PM2 F1-O-TUE-M2 E2-O-MON-PM1
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Belyakov, Andrey Ben Daly, Hachmi BEN FRAJ, Boutheina BEN HAJ SLAMA, Meriem Ben Saada, Fatma Ben Saada, Mariem Benabadji, Mostafa Kerim Bencok, Peter Bender, Marcus Benedetti, Francesco Benevides, Rodrigo Benghuzzi, Hamed	F3-O-THU-PM1 C2-I/K-MON-PM1 C3-O-FRI-PM1 C1-O-FRI-AM2 B3-O-MON-PM2, C10-P-THU-P2-4, B4-O-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 D10-O-WED-PM2 B11-O-WED-PM2 B11-O-WED-AM2 D9-O-TUE-PM2, B10-O-WED-AM2 D8-P-TUE-P1-1, D8-P-TUE-P1-13 A8-O-MON-PM1 C1-I/K-WED-PM1 D1-O-THU-PM2 F1-O-TUE-PM2 F1-O-TUE-PM2 F1-O-TUE-M2 E2-O-MON-PM1 B7-P-THU-P2-4
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Belyakov, Andrey Ben Daly, Hachmi BEN FRAJ, Boutheina BEN HAJ SLAMA, Meriem Ben Saada, Fatma Ben Saada, Mariem Benabadji, Mostafa Kerim Bencok, Peter Bender, Marcus Benedetti, Francesco Benevides, Rodrigo Benghuzzi, Hamed Bengoechea, Miguel	F3-O-THU-PM1 C2-I/K-MON-PM1 C3-O-FRI-PM1 C1-O-FRI-AM2 B3-O-MON-PM2, C10-P-THU-P2-4, B4-O-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 D10-O-WED-PM2 B11-O-MON-PM2 B11-O-WED-PM2 B10-O-WED-AM2 D9-O-TUE-PM2, B10-O-WED-AM2 D8-P-TUE-P1-2, D8-P-TUE-P1-13 A8-O-MON-PM1 C1-I/K-WED-PM1, D1-D-TUE-PM1, D1-D-TUE-PM1, D1-D-TUE-PM2 E2-O-MON-PM1 B7-P-THU-P2-4 B2-O-FRI-AM2, B10-P-TUE-P1-6
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Belyakov, Andrey Ben Daly, Hachmi BEN FRAJ, Boutheina BEN HAJ SLAMA, Meriem Ben Saada, Fatma Ben Saada, Mariem Benabadji, Mostafa Kerim Bencok, Peter Bender, Marcus Benedetti, Francesco Benevides, Rodrigo Benghuzzi, Hamed Bengoechea, Miguel Benhacine, Mohamed Al Amine	F3-O-THU-PM1 C2-I/K-MON-PM1 C3-O-FRI-PM1 C1-O-FRI-AM2 B3-O-MON-PM2, C10-P-THU-P2-4, B4-O-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 D10-O-WED-PM2 B11-O-MON-PM2 B11-O-WED-PM2 B10-O-WED-AM2 D9-O-TUE-PM2, B10-O-WED-AM2 D8-P-TUE-P1-2, D8-P-TUE-P1-13 A8-O-MON-PM1 C1-I/K-WED-PM1, D1-D-TUE-PM1, D1-P-TUE-P1-T7 D10-O-THU-PM2 F1-O-TUE-AM2 E2-O-MON-PM1 B7-P-THU-P2-4 B2-O-FRI-AM2,
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Betyakov, Andrey Ben Daly, Hachmi BEN FRAJ, Boutheina BEN HAJ SLAMA, Meriem Ben Saada, Fatma Ben Saada, Mariem Benabadji, Mostafa Kerim Bencok, Peter Bender, Marcus Benedetti, Francesco Benevides, Rodrigo Benghuzzi, Hamed Bengoechea, Miguel Benhacine, Mohamed Al Amine Ben-Hamu, Guy	F3-O-THU-PM1 C2-I/K-MON-PM1 C3-O-FRI-AM2 B3-O-MON-PM2, C10-P-THU-P2-4, B4-O-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 D10-O-WED-PM2 B11-O-MON-PM2 B11-O-WED-PM2 B10-O-WED-AM2 D9-O-TUE-PM2, B10-O-WED-AM2 D8-P-TUE-P1-13 A8-O-MON-PM1 C1-I/K-WED-PM1, D1-O-TUE-PM1, D1-P-TUE-P1-17 D10-O-THU-PM2 F1-O-TUE-AM2 E2-O-MON-PM1 B7-P-THU-P2-4 B2-O-FRI-AM2, B10-P-TUE-P1-6 B1-P-TUE-P1-6 B1-P-TUE-P1-6
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Belyakov, Andrey Ben Daly, Hachmi BEN FRAJ, Boutheina BEN HAJ SLAMA, Meriem Ben Saada, Fatma Ben Saada, Mariem Benabadji, Mostafa Kerim Bencok, Peter Bender, Marcus Benedetti, Francesco Benevides, Rodrigo Benghuzzi, Hamed Bengoechea, Miguel Benhacine, Mohamed Al Amine Ben-Hamu, Guy Benito-Alfonso, Miguel	F3-O-THU-PM1 C2-I/K-MON-PM1 C3-O-FRI-PM1 C1-O-FRI-AM2 B3-O-MON-PM2, C10-P-THU-P2-4, B4-O-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 D10-O-WED-PM2 B11-O-MON-PM2 B11-O-WED-PM2 B10-O-WED-AM2 D9-O-TUE-PM2, B10-O-WED-AM2 D8-P-TUE-P1-13 A8-O-MON-PM1 C1-I/K-WED-PM1, D1-O-TUE-PM1, D1-O-TUE-PM1, D1-O-THU-PM2 F1-O-TUE-M2 E2-O-MON-PM1 B7-P-THU-P2-4 B2-O-FRI-AM2, B10-P-TUE-P1-6 B1-P-THU-P2-3, B1-O-TUE-PM2
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Belyakov, Andrey Ben Daly, Hachmi BEN FRAJ, Boutheina BEN HAJ SLAMA, Meriem Ben Saada, Fatma Benabadji, Mostafa Kerim Benabadji, Mostafa Kerim Benabeltii, Francesco Benevides, Rodrigo Benghuzzi, Hamed Bengoechea, Miguel Benhacine, Mohamed Al Amine Ben-Hamu, Guy Benito-Alfonso, Miguel Benmore, Chris J.	F3-O-THU-PM1 C2-I/K-MON-PM1 C3-O-FRI-PM1 C1-O-FRI-AM2 B3-O-MON-PM2, C10-P-THU-P2-4, B4-O-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 D10-O-WED-PM2 B11-O-WED-PM2 B11-O-WED-PM2 B10-O-WED-MM2 D9-O-TUE-PM2, B10-O-WED-AM2 D8-P-TUE-P1-13 A8-O-MON-PM1 C1-I/K-WED-PM1, D1-D-TUE-PM1, D1-D-TUE-PM1, D1-D-TUE-PM1, D1-D-TUE-PM1, D1-P-TUE-P1-T D10-O-THU-PM2 E2-O-MON-PM1 B7-P-THU-P2-4 B2-O-FRI-AM2, B10-P-TUE-P1-6 B1-P-THU-P2-3, B1-O-TUE-PM2 D3-O-WED-PM1
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Belyakov, Andrey Ben Daly, Hachmi BEN FRAJ, Boutheina BEN HAJ SLAMA, Meriem Ben Saada, Fatma Ben Saada, Mariem Benabadji, Mostafa Kerim Bencok, Peter Bender, Marcus Benedetti, Francesco Benevides, Rodrigo Benghuzzi, Hamed Bengoechea, Miguel Benhacine, Mohamed Al Amine Ben-Hamu, Guy Benito-Alfonso, Miguel Benmore, Chris J. Bennett, Robbie J	F3-O-THU-PM1 C2-I/K-MON-PM1 C3-O-FRI-PM1 C1-O-FRI-AM2 B3-O-MON-PM2, C10-P-THU-P2-4, B4-O-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 D10-O-WED-PM2 B11-O-WED-PM2 B11-O-WED-PM2 B10-O-WED-AM2 D9-O-TUE-PM2, B10-O-WED-AM2 D8-P-TUE-P1-13 A8-O-MON-PM1 C1-I/K-WED-PM1, D1-O-TUE-PM1, D1-O-TUE-PM1, D1-O-THU-PM2 F1-O-TUE-MN2 E2-O-MON-PM1 B7-P-THU-P2-4 B2-O-FRI-AM2, B10-P-TUE-P1-6 B1-P-THU-P2-3, B1-O-TUE-PM2 D3-O-WED-PM1 D2-H-THU-MN2 B7-O-WED-PM1
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Belyakov, Andrey Ben Daly, Hachmi BEN FRAJ, Boutheina BEN HAJ SLAMA, Meriem Ben Saada, Fatma Ben Saada, Mariem Benabadji, Mostafa Kerim Benabadji, Mostafa Kerim Bencok, Peter Bender, Marcus Benedetti, Francesco Benevides, Rodrigo Benghuzzi, Hamed Bengoechea, Miguel Benhacine, Mohamed Al Amine Ben-Hamu, Guy Benito-Alfonso, Miguel Benmore, Chris J. Bennett, Robbie J Bennett, Thomas	F3-O-THU-PM1 C2-I/K-MON-PM1 C3-O-FRI-PM1 C1-O-FRI-AM2 B3-O-MON-PM2, C10-P-THU-P2-4, B4-O-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 D10-O-WED-PM2 B11-O-WED-PM2 B11-O-WED-PM2 B10-O-WED-AM2 D9-O-TUE-PM2, B10-O-WED-AM2 D8-P-TUE-P1-13 A8-O-MON-PM1 C1-I/K-WED-PM1, D1-O-TUE-PM1, D1-O-TUE-PM1, D1-O-THU-PM2 F1-O-TUE-PM1 B7-P-THU-P2-4 B2-O-FRI-AM2, B10-P-TUE-P1-6 B1-P-THU-P2-3, B1-O-TUE-PM2 D3-O-WED-PM1 D2-H-THU-M2 B7-O-WED-PM1
Bellouard, Yves Belmonte, Manuel Belmonte, Thierry Belyakov, Andrey Ben Daly, Hachmi BEN FRAJ, Boutheina BEN HAJ SLAMA, Meriem Ben Saada, Fatma Benabadji, Mostafa Kerim Benabadji, Mostafa Kerim Bencok, Peter Bender, Marcus Benedetti, Francesco Benevides, Rodrigo Benghuzzi, Hamed Bengoechea, Miguel Benhacine, Mohamed Al Amine Ben-Hamu, Guy Benito-Alfonso, Miguel Benmore, Chris J. Bennett, Robbie J Bennett, Thomas Benoit, Virginie	F3-O-THU-PM1 C2-I/K-MON-PM1 C3-O-FRI-PM1 C1-O-FRI-AM2 B3-O-MON-PM2, C10-P-THU-P2-4, B4-O-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 D10-O-WED-PM2 B11-O-WED-PM2 B11-O-WED-PM2 B10-O-WED-MM2 D8-P-TUE-P1-2, D8-P-TUE-P1-13 A8-O-MON-PM1 C1-I/K-WED-PM1, D1-O-TUE-PM1, D1-O-TUE-PM1, D1-O-THU-PM2 F1-O-TUE-PM1, D1-P-TUE-P1-7 B7-P-THU-P2-4 B2-O-FRI-AM2, B10-P-TUE-P1-6 B1-P-THU-P2-3, B1-O-TUE-PM2 B1-O-WED-PM1 D2-H-THU-M2 B7-O-WED-PM1 D2-H-THU-M2 B7-O-WED-PM1

	Bentsen, I.M.	E3-H-WED-PM1
	Benzaqui, Marvin	B7-0-THU-PM2, B7-P-THU-P23
	Beobide, Garikoitz	A7-I-P-TUE-P1-8
	Bepete, George	A1-0-FRI-PM1
	Bera, Supriya	B9-H-THU-PM1
	Beran, Přemysl	B3-0-TUE-PM1
	Berardan, David	E3-P-TUE-P1-5
	BERDIN, Clotilde	C1-O-TUE-AM2
	Berends, Anne	A5-O-WED-PM2
	Berent, Katarzyna	C5-P-THU-P2-2, B8-O-WED-AM2, B8-P-THU-P2-7
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Bridier, Florent	C6-O-TUE-PM1	Bugrov, Vladislav	A7-0-THU-PM2	0.1 0.	D1-O-WED-PM1, B2-O-WED-PM2,
Brie, Joel	F5-H-FRI-AM2	Buhagiar, Joseph	C4-P-THU-P2-14	Cai, Biao	D1-0-THU-PM1,
Briez, Louise	B2-O-MON-PM1	Buken, Heinrich	C10-O-THU-PM1		D1-P-TUE-P1-7, B1-O-TUE-PM2,
Brigandì, Antonino	E2-O-TUE-PM2	Bulanda, Malgorzata	F5-O-FRI-AM2		B8-O-THU-PM2
Briggs, Samuel A.	H1-O-MON-PM2	Bulatov, Marat	C5-P-THU-P2-11	Caiazzo, Fabrizia	A6-II-P-THU-P2-3
Briguglio, Nicola	E2-0-TUE-AM2	Bülbül, Fatih	B10-0-M0N-PM2	Caillard, Daniel	D4-H-MON-PM1, D9-I/K-MON-AM2
Brihi, Ouarda	D1-P-TUE-P1-12	Buljac, Ante	D1-O-WED-AM2	Cairney, Julie	D2-H-THU-PM1
Brillson, Leonard	E3-O-MON-PM2	Bullock, Anthony	F2-P-THU-P2-7	Cakir, Asli	A2-I/K-THU-AM2
Brintakis, Konstantinos	A2-H-WED-PM2, A5-P-TUE-P1-15	Bullock, Anthony J.	F2-P-THU-P2-3	Calaf, José	B2-0-TUE-PM1
Brinza, Ovidiu	C10-0-THU-PM2	Bulteau, Anne-laure	F3-O-THU-AM2	Calarco, Raffaella	A7-I/K-MON-PM2
Briones, David	B7-0-WED-PM1	Bulthuis , Willem	XXX	Calderon Urbina, Juan Pablo	C2-P-TUE-P1-6
Briottet, Laurent	B10-0-TUE-PM2	Bültmann, Jan	B1-I/K-THU-AM2		C1-H-THU-AM2,
Bristowe, Nicholas	A8-H-TUE-AM2	Bunin, Igor	C1-O-FRI-PM1	Calderon, Sebastian	C1-II-P-THU-P2-2
Britun, Nikolay	A1-0-FRI-PM1	Buonsanti, Raffaella	A5-H-TUE-PM2	Calignano, Flaviana	C4-O-FRI-AM2
Brock, Stephanie L.	A5-O-WED-PM2	Burada, Marian	H2-P-TUE-P1-5	Calin, Mariana	D8-O-FRI-AM2, B9-H-THU-PM1
Brodin, Håkan	B3-O-WED-PM2	Buranova, Yulia	D5-O-THU-PM1	0.11.1. 0.11	B7-N-TNO-PM1 B7-O-WED-PM1,
Brodova, Irina	B4-0-THU-PM1	Burcea, Ion	B8-O-WED-PM2	Calleja, Guillermo	B7-0-THU-PM2
Brooke, Emily	C5-P-THU-P2-16	Bures, Radovan	B6-P-TUE-P1-25	Calliari, Irene	C9-O-THU-PM2
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Calmunger, Mattias Calmunger, Mattias	C1-O-THU-PM2,				
• .	B11-O-MON-AM2	Carradò, Adele Carrasco, Claudia	E6-0-THU-PM1 C1-0-THU-AM2	Celegato, Federica	A2-H-THU-PM1, C1-O-THU-PM1
	D4-O-WED-AM2	Carrasco-Marín, Francisco	E2-P-TUE-P1-13	Célérier, Stéphane	D2-0-WED-AM2
Calvet Rodríguez, Victor	B6-P-TUE-P1-7	Carron, Denis	C6-0-TUE-PM1	Celzard, Alain	H2-O-MON-AM2
Calvo, Jessica	B3-O-WED-PM2	CARRON, Denis	C6-O-TUE-AM2	Čepe, Klára	A1-0-FRI-PM1
Calvo-Dahlborg, Monique	B8-O-WED-AM2	Carta, Mariolino	A9-P-THU-P2-2	Cerchier, Pietrogiovanni	C1-O-FRI-AM2,
Calzolai, Luigi	A5-0-M0N-PM1	Carter, Ovando	F3-P-THU-P2-5	,	A5-0-TUE-AM2
Cam, Gurel	C6-O-MON-PM2	Caruso, Tommaso	E3-0-WED-PM2	Cernohorský, Ondřej	A5-P-TUE-P1-3
ÇAM, Gürel	C6-O-MON-AM2	Carvalho, Luisa	C2-O-TUE-AM2	Cerqueira, Maria	C5-P-THU-P2-8
Camara, O	A7-0-FRI-AM2	Carvalho, P. A.	E4-P-THU-P2-5	Cerreta, Ellen	D6-O-FRI-AM2
Camarano, Antonio	C5-O-THU-PM2,	Carvalho, P.A.	E4-0-THU-AM2	Cerstvy, Radomir	C1-I-P-TUE-P1-12
	C5-O-THU-PM2	·	E3-O-WED-PM1,	Čerstvý, Radomír	C1-O-TUE-PM2, C1-O-WED-AM2,
Cambedouzou, Julien	B5-O-MON-AM2	Carvalho, Patricia	D2-P-TUE-P1-28		E1-0-TUE-PM2
Camino, Fernando	D1-O-TUE-PM1	Carvalho, S.	C1-II-P-THU-P2-2	Cervellino, Antonio	D1-0-TUE-AM2
Cammarata, Antonio	A7-H-TUE-PM1	Carvalho, Sandra	C1-H-THU-AM2	0 1 0 1 1 1	D9-P-TUE-P1-13,
Campabadal, Francesca	D2-O-TUE-PM2	Casalegno, Andrea	E2-0-TUE-AM2	Cervino, Stefano Matteo	D9-P-TUE-P1-14, D9-O-TUE-AM2
Campazzi, Elisa	A3-0-TUE-AM2		C5-O-FRI-AM2,	0	E4-0-WED-PM1.,
Campbell, John	C8-O-FRI-AM2	Casalegno, Valentina	C5-P-THU-P2-3, C1-II-P-THU-P2-5	Ceseracciu, Luca	A3-0-M0N-PM1
Campidelli, Yves	C11-O-THU-PM1	Casanova Chafer, Juan	A1-0-FRI-PM1		C8-P-THU-P2-13,
Campodoni, Elisabetta	F5-H-FRI-AM2	·	F1-0-TUE-AM2,	Cetin, Remzi	C8-P-THU-P2-14, C8-O-THU-AM2,
Campos, Andrea P. C.	D2-O-TUE-AM2	Casarrubios, Laura	F1-P-TUE-P1-3	•	C8-P-THU-P2-15,
Camurri, Carlos	C1-O-THU-AM2	Cascajo Castresana, María	F3-P-THU-P2-2		C8-O-THU-AM2
Cañadas, Inmaculada	C1-H-TUE-AM2	Casco, Mirian	B7-0-THU-PM2	Cetinkaya, Mehmet Emre	C8-O-THU-PM1
Canale, Claudio	A3-0-M0N-PM1	Caseri, Walter R.	A3-O-MON-PM2	Chabera, Paulina	B6-P-TUE-P1-29, H3-P-TUE-P1-3
Cañas, Eugeni	C1-O-TUE-PM1, F4-O-MON-AM2,	Cases, Rafael	C2-O-MON-PM2		C9-P-THU-P2-3,
Callas, Luyelli	B5-P-TUE-P1-13	Cassinelli, Clara	F2-P-THU-P2-5	Chabior, Katarzyna	B5-P-TUE-P1-10
Canavese, Giancarlo	F3-P-THU-P2-7	Castaño, Pedro	A7-I-P-TUE-P1-8	Chadwick, Alan	E2-P-TUE-P1-3
	A7-0-THU-PM2,		B1-O-THU-AM2,	Chae, Byeong-Gyu	D2-O-TUE-PM2
Cancellieri, Claudia	D1-O-TUE-PM2,	Castany, Philippe	F4-0-MON-PM2,	Chafaa, Salah	B10-P-TUE-P1-1
Cancino, Felix	A7-0-M0N-PM2 E4-P-THU-P2-10	Castellani, Romain	B2-O-WED-PM1 A3-O-TUE-AM2	Chaffron, Laurent	B1-0-THU-AM2
Candelario, Victor M	B5-0-M0N-AM2	Castellero, Alberto	B9-I/K-THU-AM2	Chahine, Gilbert	D1-O-WED-PM1
Canepa, Pieremanuele	E2-O-WED-AM2	Castelli, Andrea	A5-H-WED-PM2	Chahine, Richard	E1-H-MON-PM1
	A9-P-THU-P2-1	Castetti, Allurea	B11-0-TUE-AM2,	Chai, Guocai	C1-O-THU-PM2,
Cano-Murillo, Natalia	F3-P-THU-P2-7	Castelnau, Olivier	D1-0-FRI-AM2		B11-O-MON-AM2
Canta, Marta Cantelar, E.	A7-II-P-THU-P2-16	Castillejo, M	C2-P-TUE-P1-7	Chaieb, Tesnim	A1-P-THU-P2-4
Canteli, David	C2-P-TUE-P1-1	Castillo Chamorro , Jose Humberto	B5-P-TUE-P1-23	Chairopoulou, Makrina Artemis	F6-0-THU-PM2
•	D6-0-FRI-PM1	Castillo Rodríguez, Miguel	B4-0-THU-AM2	Chaise, Thibaut	B3-0-M0N-PM2
Cantournet, Sabine	H2-O-TUE-AM2,	Castillo, Anthony	B6-P-TUE-P1-24	Chaix, Jean-Marc	C3-O-FRI-AM2
Cao, Hongbin	H2-P-TUE-P1-4,	Castillo, Oscar	A7-I-P-TUE-P1-8	Chakrabarti, Debalay	C10-O-FRI-AM2, B1-O-THU-PM2
	A5-P-TUE-P1-14	Castin, N.	D9-O-WED-AM2	Obella market Plantitie	C1-I-P-TUE-P1-20,
cao, qingping	C10-H-WED-PM1		D9-0-WED-AM2,	Chaliampalias, Dimitrios	E3-P-TUE-P1-13
Capdevila, Carlos	B1-0-THU-PM2,	Castin, Nicolas	D9-P-TUE-P1-2,	Chalk, Christine	C1-II-P-THU-P2-11
Čapek, Jan	D9-I/K-MON-AM2 B2-O-WED-PM2		D9-O-WED-AM2, D10-I-P-TUE-P1-8	Chalykh, Boris	E4-0-WED-AM2
Čapek, Jiří	E1-0-TUE-PM2	Castriota, Marco	E2-P-TUE-P1-16,	Chamisa, Alfonce	B1-H-THU-PM2
Capitani, Francesco	D3-I/K-WED-AM2	·	E2-P-TUE-P1-23	Chamos, Apostolos	B10-0-TUE-PM1
Capomaccio, Robin	A5-0-MON-PM1	Casula, Maria	A5-H-WED-AM2	Champion, Yannick	B4-0-FRI-PM1
Capone, Isaac	E2-P-TUE-P1-5	Catlow, Richard	E1-0-TUE-PM1	Chan, Ke Vin	A5-P-TUE-P1-6
	D3-0-WED-PM2	Cattalini, Juan Pablo	F1-P-TUE-P1-10	Chandler, Mike	D1-P-TUE-P1-5,
Cappella, Andrea Cárabe, Julio	C2-P-TUE-P1-1	Caturla, M.J.	D9-P-TUE-P1-18	Chandles Miles	D1-P-TUE-P1-29
•	F2-P-THU-P2-1	Caturla, Maria José	E4-P-THU-P2-8, D9-O-WED-AM2	Chandler, Mike	D1-O-WED-AM2 A7-O-THU-AM2,
Carafa, Maria			F1-0-TUE-PM2,	Chandrinou, Chryssa	D2-P-TUE-P1-18
Carbó, Carolina	E3-P-TUE-P1-8	Cauda, Valentina	F3-P-THU-P2-7	Chang, Chulho	C7-O-TUE-PM2
Carbone, Alessandra	E2-0-TUE-PM2	Caussat, Brigitte	C1-O-MON-PM2	Chang, Isaac	C6-O-MON-PM1
Carbone, Giuseppe	C2-H-TUE-AM2	Cautaerts, Niels	E4-O-WED-PM1,	Chang, Robert	D1-O-WED-PM2
Carboni, Marco	E2-0-MON-PM1		E4-0-WED-PM1	Chang, Zhongwen	D10-0-FRI-AM2
Carbotte, Jules	D3-I/K-WED-AM2	Cavalcante di Lello, Bruno	F4-P-TUE-P1-3	Chantrell, Roy	A2-H-WED-PM2
Carcea, Ioan	B8-P-THU-P2-5, B6-P-TUE-P1-20	Cavalcante Pinto, Haroldo	B2-P-TUE-P1-14	Chantrenne, Patrice	B1-0-FRI-AM2
Cardenia, Chiara	H2-O-MON-AM2	Cavaleiro, André	C4-P-THU-P2-8	Chanturiya, Valentine	C1-O-FRI-PM1
Cardinal, Sandrine	B9-P-THU-P2-5	Cavaleiro, André J.	C4-P-THU-P2-9, C4-O-WED-PM1	Chapelle, David	E1-0-M0N-PM2
Cardona Usuga, Juan Andres	F1-0-TUE-PM2	Cawkwell, Marc	D10-0-FRI-PM1	Chapman, Gabriella	B3-0-TUE-AM2
Cardoso, Laura	F6-0-FRI-PM1	Cazares Cortes, Esther	F2-O-WED-AM2	Chaput, Christophe	F5-H-FRI-AM2
Carlé, Carla	D9-O-TUE-AM2	Cazzanelli, Enzo	E2-P-TUE-P1-23	Charaï, Ahmed	D2-O-TUE-AM2
Carlomagno, Ilaria	D1-0-THU-PM2	CAZZANELLI, ENZO	E2-P-TUE-P1-23	Charalambakis, Nicolas	D4-P-TUE-P2-12
51	B2-P-TUE-P1-14			Charalambopoulou, Georgia	F2-P-THU-P2-6
Carlos Reguena Gullermo		Cebon, David Cebrían, Virginia	D10-0-WED-AM2	Sharatambopoutou, Octor yra	F1-0-TUE-PM2,
Carlos Requena, Gullermo	F 3-11-1 H11-7 M 7	CEDITALI, VITUILIA	F3-O-THU-PM1		. 1 0 101 1112
Carlos, Luis	F3-0-THU-AM2		C11 O EDI DI41	Charalamhonoulou Georgia	A3-P-TUE-P1-11,
Carlos, Luis Carlot, Gaelle	D9-I/K-WED-PM2	Cebriano, Teresa	C11-0-FRI-PM1	Charalambopoulou, Georgia	E2-P-TUE-P1-8,
Carlos, Luis Carlot, Gaelle Carnicer, Víctor	D9-I/K-WED-PM2 C1-O-TUE-PM1	Cebriano, Teresa Ceccone, Giacomo	A5-0-M0N-PM1		E2-P-TUE-P1-8, F1-O-TUE-PM1
Carlos, Luis Carlot, Gaelle	D9-I/K-WED-PM2	Cebriano, Teresa		Charalambopoulou, Georgia Charalampidou, Christina Margarita	E2-P-TUE-P1-8,

Charalampopoulou, Evangelia	E4-O-WED-PM1 C9-I/K-THU-II2,	Cheniti, Bellel Chen-Wiegart, Yu-chen Karen	C6-P-TUE-P1-12 D1-O-TUE-PM1	Chrissafis, Konstantinos	A3-P-TUE-P1-9, C1-I-P-TUE-P1-20,
Charalampous, Paschalis	C9-H-THU-AM2,	Cherkashin, Nikolay	C11-O-FRI-PM1		E3-P-TUE-P1-13
Charatampous, Paschaus	C9-P-THU-P2-8,	• •	C5-P-THU-P2-13	Christ, Hans-Juergen	B8-O-WED-PM1, B2-O-WED-PM1
Ob. The Model's	C9-P-THU-P2-9	Chernysheva, Mariya	C4-0-THU-PM1	Christ, Hans-Jürgen	B10-0-MON-PM2
Charilaou, Michalis	A2-0-THU-AM2 A7-II-P-THU-P2-13,	Cherubini, Valeria	F5-0-FRI-AM2,	Christ, Timo	E6-0-THU-PM2
	F3-P-THU-P2-6,	Observation 17 const	F5-0-FRI-AM2,	Christensen, Mads	E3-H-MON-PM2
Charitidis, Costas	D4-P-TUE-P2-2,	Chevalier, Jérôme	F1-0-TUE-PM2,		
	E6-P-THU-P2-4,		F6-O-FRI-AM2	Christiaen, Benjamin	D9-P-TUE-P1-15
CHARLOT, Frédéric	H2-P-TUE-P1-6 D4-O-MON-PM1	CHEVALLIER, Geoffroy	C3-O-FRI-AM2	Christien, Frédéric	D8-O-WED-PM1
·	A5-P-TUE-P1-1	Chevolleau, Thierry	C11-O-THU-AM2	Christodoulou, Chris N.	E1-0-M0N-PM1
Charlion, Martin		Chevy, Juliette	B11-0-WED-PM2	Christodoulou, Petros	B1-0-TUE-PM1
Chartier, Patrick	D2-O-WED-AM2	Chhantyal, Parva	C2-O-MON-PM2	Christofidou, Katerina	B8-O-WED-PM2, B3-O-TUE-AM2
Chartier, Thierry	F5-H-FRI-AM2	Chiapetto, Monica	D9-O-WED-AM2,	Christofidou, Kathy	B8-0-WED-AM2
Chasoglou, Dimitris	C3-O-THU-PM2	Chighignoud Cuy	D9-O-WED-AM2 E3-H-TUE-PM2		D3-P-THU-P2-3,
Chass, Gregory	D2-P-TUE-P1-17	Chichignoud, Guy	C4-O-WED-PM1	Christofilos, D.	D3-P-THU-P2-10
Chatel, Sébastien	D4-0-TUE-AM2	Chichkov, Boris		Christofilos, Dimitrios	D3-P-THU-P2-5
Chatgilialoglu, Chryssostomos	F2-P-THU-P2-4	Chichkov, Boris N.	C2-O-MON-PM2	Christofilos, Dimitris	D3-P-THU-P2-2,
Chattopadhyay, Amit	D4-0-WED-PM2	Chicot, Didier	D4-P-TUE-P2-4		D3-P-THU-P2-4
Chatzigeorgiou, George	D4-P-TUE-P2-12	Chicot, Didier	D4-0-TUE-PM1	Christoforidis, Kostas	B7-H-WED-PM2
Chatzigeorgiou, Manolis	D2-O-THU-AM2	CHICOT, Didier	B11-P-TUE-P1-18	Christoph , Ohle	B6-0-TUE-PM1
Chatzinikolaidou, M.	F1-I/K-MON-PM1	Chifiriuc, Carmen Mariana	E1-P-TUE-P1-3	Christopoulos, Stavros-Richard G.	E2-P-TUE-P1-6, E4-P-THU-P2-6,
Chatzinikolaidou, Maria	F1-O-TUE-AM2	Child, Daniel	C1-O-FRI-PM1	Christopoutos, Stavios-Richard 6.	E4-P-THU-P2-7
Chatzitakis, Athanasios	E3-0-TUE-AM2	Chilingaryan, Tatevik	C1-I-P-TUE-P1-1	Chrominski, Witold	D4-0-MON-AM2
Chatzitakis, Athanasios	E3-P-TUE-P1-7	Chiodi, Mirco	D1-0-TUE-PM2	,	E2-P-TUE-P1-6,
Chatzopoulou, Giannoula	C9-O-FRI-PM1	Chiodi, Mirco	A7-0-M0N-PM2		E4-P-THU-P2-6,
Chaudhari , Abhijeet	B7-P-THU-P2-9	Chirkunova, Natalia	D2-O-WED-PM2	Chroneos, Alexander	E4-P-THU-P2-7, A7-I-P-TUE-P1-12,
	B7-0-WED-PM2,	Chirol, Clément	C9-O-FRI-PM1,		D8-P-TUE-P1-15
Chaudhari, Abhijeet	B7-H-WED-PM1, B7-P-THU-P2-6		C9-O-FRI-AM2	Chronopoulos, Demetrios	A1-H-FRI-PM1,
Chaudhuri, Santanu	B2-0-MON-PM2	Chisamera, Mihai	C8-P-THU-P2-1	Cili Oliopoulos, Dellietillos	A1-0-FRI-PM1
		Chiu, YuLung	D4-0-MON-AM2	Chryssolouris, George	B11-P-TUE-P1-11
CHAUDHURY, Prabir	C4-O-FRI-PM1 A5-H-TUE-AM2,	Chiu, Yu-Lung	D4-O-MON-PM1, B3-O-WED-PM2	Chtzantroulis , Stavros	C2-P-TUE-P1-8
Chaudret, Bruno	A5-0-TUE-PM1	Chlichlia, Katerina	A2-P-THU-P2-2	Chu, Cheng	D4-P-TUE-P2-6
Chauhan, Ankur	D9-I/K-MON-AM2	Chloe, Chloe Simone	B7-0-THU-AM2	Chu, Yaoqing	C5-O-FRI-PM1
CHAUMAT, Valérie	C5-P-THU-P2-15	•	C9-P-THU-P2-3,	Chun, Young-bum	B3-0-WED-PM1,
·	C10-P-THU-P2-7,	Chlubny, Leszek	B5-P-TUE-P1-10		B8-P-THU-P2-8
Chauveau, Thierry	C10-O-THU-PM2	Chlupová, Šárka	A7-H-THU-PM2	Chung, Sung Hoon	C6-O-TUE-AM2
CHAVEZ, JOSE FEDERICO	B2-O-THU-PM2	Chmielarczyk, Agnieszka	F5-0-FRI-AM2	Chung-Seu, U-Chan	C3-I/K-FRI-AM2
Chazot, Olivier	A6-0-THU-PM2		B6-P-TUE-P1-3,	Churyukanova, Margarita	H1-H-MON-PM1
Chedia , Roin	C3-O-FRI-AM2	Chmielewski, Marcin	B6-P-TUE-P1-4,	Chushkin, Yuriy	D1-0-FRI-AM2
Cheetham, Nathan J.	A3-O-MON-PM2		D10-I-P-TUE-P1-6, C5-O-FRI-PM1	Chuvil'deev, Vladimir	B5-P-TUE-P1-20, B6-P-TUE-P1-30
Cheik Njifon, Ibrahim	D9-O-WED-PM2	Chniouel, Aziz	C4-0-WED-AM2	Chyrkin, A.	C1-H-TUE-PM1
Chekhonin, Paul	B4-H-FRI-AM2	Cho, Yeol-Rae	B1-0-THU-AM2	Cialone, Matteo	A8-O-MON-PM2
Chelariu, Romeu	B6-P-TUE-P1-20	•	D9-P-TUE-P1-10,	Ciambezi, Matteo	D1-O-WED-PM2
CHEN, Cai	C10-0-WED-AM2	Chocholousek, Michal	D9-P-TUE-P1-11,		F1-P-TUE-P1-7,
Chen, ChuSheng	C5-P-THU-P2-9		D9-O-MON-PM1	Ciapetti, Gabriela	F1-0-TUE-PM1
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Dechev, Dimitar	C1-P-TUE-P1-15
Declercq, Heidi	F4-0-MON-AM2
Decobert, Jean	D4-P-TUE-P2-1
Decremps, Frederic	D3-H-WED-PM1
Dedinaite, Andra	F1-0-M0N-AM2
Dedry, Olivier	C4-P-THU-P2-4
Degmova, Jarmila	E4-P-THU-P2-4
Dehghani, Mohammad	
Dehm , Gerhard	D8-O-THU-PM1
Dehm Gerhard	D2-O-MON-PM2
Dehm, Gerhard	
Dehma, Gerhard Dehmas, Moukrane	D2-O-MON-PM2 D4-O-WED-PM1
Dehmas, Moukrane Dehoff, Ryan	D2-O-MON-PM2 D4-O-WED-PM1 B2-O-THU-PM1, B2-O-WED-PM1 B10-O-WED-PM2
Dehmas, Moukrane Dehoff, Ryan Dehoux, Anita	D2-O-MON-PM2 D4-O-WED-PM1 B2-O-THU-PM1, B2-O-WED-PM1 B10-O-WED-PM2 D4-O-TUE-AM2
Dehmas, Moukrane Dehoff, Ryan Dehoux, Anita Deidda, Graziano	D2-O-MON-PM2 D4-O-WED-PM1 B2-O-THU-PM1, B2-O-WED-PM1 B10-O-WED-PM2 D4-O-TUE-AM2 F6-O-FRI-PM1
Dehmas, Moukrane Dehoff, Ryan Dehoux, Anita Deidda, Graziano Deimede, Valadoula	D2-O-MON-PM2 D4-O-WED-PM1 B2-O-THU-PM1, B2-O-WED-PM1 B10-O-WED-PM2 D4-O-TUE-AM2 F6-O-FRI-PM1 E1-O-MON-AM2
Dehmas, Moukrane Dehoff, Ryan Dehoux, Anita Deidda, Graziano	D2-O-MON-PM2 D4-O-WED-PM1 B2-O-THU-PM1, B2-O-WED-PM1 B10-O-WED-PM2 D4-O-TUE-AM2 F6-O-FRI-PM1

Dekan, Julius	E4-P-THU-P2-4
Dekker, Riande	A5-0-TUE-PM2
Del Favero, Elena	F2-P-THU-P2-1
Del Prado, Felix	A7-II-P-THU-P2-6
Del Rio , Emma	D9-P-TUE-P1-18
DELAGNES, Denis	C3-O-FRI-AM2
Delahaye, Jocelyn	C4-P-THU-P2-4
Delandar, Arash Hosseinzadeh	D9-0-WED-AM2
DELANNAY, Laurent	D4-0-MON-PM1
Delannoy, Yves	E3-H-TUE-PM2 C2-H-MON-AM2
Delaporte, Philippe Delcuse, Laura	C3-H-FRI-PM1
Deldar, Shayan	B11-O-TUE-AM2, B9-O-THU-PM2
Delehanty, James	A5-0-MON-PM2
Delfosse, Jerome	C6-O-MON-AM2
Delfosse, Jérôme	B2-0-THU-PM1
Delgado Carrascón, Rosalía	F3-P-THU-P2-3
Delgado, Francisco Javier	D2-P-TUE-P1-14
D'Elia, Eleonora	F6-O-FRI-PM1,
	B6-O-TUE-PM1 A3-P-TUE-P1-19
Delides, Constandinos Deligianois Konstantinos	E1-O-MON-PM1
Deligiannis, Konstantinos Delimitis, A.	A2-P-THU-P2-4
Delimitis, Andreas	E3-P-TUE-P1-14
Della Pirriera, Mónica Beatriz	H3-P-TUE-P1-1
Della Pirriera, Mónica Bratriz	E3-P-TUE-P1-8
Dellasega, D.	E4-P-THU-P2-1
Delli, Evangelia	C11-O-THU-PM2
Delmas, Florent	B9-P-THU-P2-5
Delobel, Florimond	B5-0-M0N-AM2
Delobelle, Patrick	C1-0-MON-AM2
Delville, Jean Pierre	A5-P-TUE-P1-8
	A5-P-TUE-P1-8,
Delville, Marie Helene	F3-0-THU-AM2
Delville, Marie-Helene Delville, Marie-Helene	
	F3-0-THU-AM2
Delville, Marie-Helene Delville, Remi Delville, Rémi	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1
Delville, Marie-Helene Delville, Remi Delville, Rémi Delville, Rémi	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11
Delville, Marie-Helene Delville, Remi Delville, Rémi Delville, Rémi Dembinski, Lucas	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1
Delville, Marie-Helene Delville, Remi Delville, Rémi Delville, Rémi Dembinski, Lucas Demes, Thomas	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1
Delville, Marie-Helene Delville, Remi Delville, Rémi Delville, Rémi Dembinski, Lucas	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-5
Delville, Marie-Helene Delville, Remi Delville, Rémi Delville, Rémi Dembinski, Lucas Demes, Thomas	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1
Delville, Marie-Helene Delville, Remi Delville, Rémi Detville, Rémi Dembinski, Lucas Demes, Thomas Demirkesen, Secil	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-5 C10-P-THU-P2-3,
Delville, Marie-Helene Delville, Remi Delville, Rémi Delville, Rémi Dembinski, Lucas Demes, Thomas Demirkesen, Secil Demirtas, Muhammet	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-5 C10-P-THU-P2-3, C10-P-THU-P2-6
Delville, Marie-Helene Delville, Remi Delville, Rémi Delville, Rémi Dembinski, Lucas Demes, Thomas Demirkesen, Secil Demirtas, Muhammet	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-3 C10-P-THU-P2-6 B11-0-TUE-PM2 C3-0-FRI-AM2 B7-0-FRI-AM2
Delville, Marie-Helene Delville, Remi Delville, Rémi Delville, Rémi Dembinski, Lucas Demes, Thomas Demirkesen, Secil Demirtas, Muhammet Demirtas, Muhammet	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-5 C10-P-THU-P2-6 B11-0-TUE-PM2 C3-0-FRI-AM2 B7-0-FRI-AM2 E6-0-FRI-PM1, C9-0-THU-PM1
Detville, Marie-Helene Detville, Remi Detville, Rémi Detville, Rémi Dembinski, Lucas Demes, Thomas Demirkesen, Secil Demirtas, Muhammet DEMOISSON, Frédéric Demuynck, Ruben	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-5 C10-P-THU-P2-6 B11-0-TUE-PM2 C3-0-FRI-AM2 B7-0-FRI-AM2 E6-0-FRI-PM1,
Detville, Marie-Helene Detville, Remi Delville, Rémi Delville, Rémi Dembinski, Lucas Demes, Thomas Demirkesen, Secil Demirtas, Muhammet Demirtas, Muhammet DEMOISSON, Frédéric Demuynck, Ruben Dendievel, Remy	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-3, C10-P-THU-P2-6 B11-0-TUE-PM2 C3-0-FRI-AM2 B7-0-FRI-AM2 E6-0-FRI-PM1, C9-0-THU-PM1
Detville, Marie-Helene Detville, Remi Detville, Rémi Detville, Rémi Dembinski, Lucas Demes, Thomas Demirkesen, Secil Demirtas, Muhammet Demirtas, Muhammet DEMOISSON, Frédéric Demuynck, Ruben Dendievel, Remy Dendrinou-Samara, C.	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-5 C10-P-THU-P2-6 B11-0-TUE-PM2 C3-0-FRI-AM2 B7-0-FRI-AM2 E6-0-FRI-PM1, C9-0-THU-PM1 A5-P-TUE-P1-12, A5-P-TUE-P1-13 A5-0-WED-AM2 A5-P-TUE-P1-4, A5-P-TUE-P1-9,
Delville, Marie-Helene Delville, Remi Delville, Rémi Delville, Rémi Dembinski, Lucas Demes, Thomas Demirkesen, Secil Demirtas, Muhammet Demirtas, Muhammet DEMOISSON, Frédéric Demuynck, Ruben Dendievel, Remy Dendrinou-Samara, C. Dendrinou-Samara, Catherine	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-3 C10-P-THU-P2-6 B11-0-TUE-PM2 C3-0-FRI-AM2 B7-0-FRI-AM2 E6-0-FRI-PM1, C9-0-THU-PM1 A5-P-TUE-P1-12, A5-P-TUE-P1-13 A5-0-WED-AM2 A5-P-TUE-P1-9, A5-P-TUE-P1-9, A5-P-TUE-P1-9, A5-P-TUE-P1-10
Delville, Marie-Helene Delville, Remi Delville, Rémi Detville, Rémi Dembinski, Lucas Demes, Thomas Demirkesen, Secil Demirtas, Muhammet Demirtas, Muhammet DEMOISSON, Frédéric Demuynck, Ruben Dendievel, Remy Dendrinou-Samara, C. Dendrinou-Samara, Catherine Deng, Dunyong	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PP3 C10-P-THU-P2-3 C10-P-THU-P2-6 B11-0-TUE-PM2 C3-0-FRI-AM2 B7-0-FRI-AM2 E6-0-FRI-PM1, C9-0-THU-PM1 A5-P-TUE-P1-12, A5-P-TUE-P1-13 A5-0-WED-AM2 A5-P-TUE-P1-19, A5-P-TUE-P1-9, A5-P-TUE-P1-10 C4-0-THU-AM2
Delville, Marie-Helene Delville, Remi Delville, Rémi Detville, Rémi Dembinski, Lucas Demes, Thomas Demirkesen, Secil Demirtas, Muhammet Demirtas, Muhammet DEMOISSON, Frédéric Demuynck, Ruben Dendievel, Remy Dendrinou-Samara, C. Dendrinou-Samara, Catherine Deng, Dunyong Deng, Yue	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-5 C10-P-THU-P2-6 B11-0-TUE-PM2 C3-0-FRI-AM2 B7-0-FRI-AM2 E6-0-FRI-PM1, C9-0-THU-PM1 A5-P-TUE-P1-12, A5-P-TUE-P1-13 A5-0-WED-AM2 A5-P-TUE-P1-9, A5-P-TUE-P1-10 C4-0-THU-AM2 E2-0-WED-AM2
Detville, Marie-Helene Detville, Remi Detville, Rémi Detville, Rémi Dembinski, Lucas Demes, Thomas Demirkasen, Secil Demirtas, Muhammet Demirtas, Muhammet DEMOISSON, Frédéric Demuynck, Ruben Dendievel, Remy Dendrinou-Samara, C. Dendrinou-Samara, Catherine Deng, Dunyong Deng, Yue Deng, Yue	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-5 C10-P-THU-P2-6 B11-0-TUE-PM2 C3-0-FRI-AM2 B7-0-FRI-AM2 E6-0-FRI-PM1, C9-0-THU-PM1 A5-P-TUE-P1-11, A5-P-TUE-P1-12, A5-P-TUE-P1-13 A5-0-WED-AM2 A5-P-TUE-P1-9, A5-P-TUE-P1-10 C4-0-THU-AM2 E2-0-WED-AM2 D4-0-WED-AM2
Detville, Marie-Helene Detville, Remi Detville, Rémi Detville, Rémi Dembinski, Lucas Demes, Thomas Demirkesen, Secil Demirtas, Muhammet Demirtas, Muhammet DEMOISSON, Frédéric Demuynck, Ruben Dendievel, Remy Dendrinou-Samara, C. Dendrinou-Samara, Catherine Deng, Dunyong Deng, Yue Deng, Thomas	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-3 C10-P-THU-P2-6 B11-0-TUE-PM2 C3-0-FRI-AM2 B7-0-FRI-AM2 E6-0-FRI-PM1, C9-0-THU-PM1 A5-P-TUE-P1-11, A5-P-TUE-P1-12, A5-P-TUE-P1-13 A5-0-WED-AM2 A5-P-TUE-P1-9, A5-P-TUE-P1-10 C4-0-THU-AM2 E2-0-WED-AM2
Detville, Marie-Helene Detville, Remi Detville, Rémi Detville, Rémi Dembinski, Lucas Demes, Thomas Demirkesen, Secit Demirtas, Muhammet Demirtas, Muhammet DEMOISSON, Frédéric Demuynck, Ruben Dendievel, Remy Dendrinou-Samara, C. Dendrinou-Samara, Catherine Deng, Dunyong Deng, Yue Deng, Yun Dengg, Thomas Denoual, Christophe	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-3 C10-P-THU-P2-6 B11-0-TUE-PM2 C3-0-FRI-AM2 B7-0-FRI-AM2 E6-0-FRI-PM1, C9-0-THU-PM1 A5-P-TUE-P1-12, A5-P-TUE-P1-13 A5-0-WED-AM2 A5-P-TUE-P1-10 C4-0-THU-AM2 E2-0-WED-AM2 D4-0-WED-AM2 D8-0-THU-PM1 D8-P-TUE-P1-3, D3-0-WED-AM2
Detville, Marie-Helene Detville, Remi Detville, Rémi Detville, Rémi Dembinski, Lucas Demes, Thomas Demirkasen, Secil Demirtas, Muhammet DEMOISSON, Frédéric Demuynck, Ruben Dendievel, Remy Dendrinou-Samara, C. Dendrinou-Samara, Catherine Deng, Dunyong Deng, Yue Deng, Yun Dengg, Thomas Denoual, Christophe Denquin, Anne	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-5 C10-P-THU-P2-6 B11-0-TUE-PM2 C3-0-FRI-AM2 B7-0-FRI-AM2 E6-0-FRI-PM1, C9-0-THU-PM1 A5-P-TUE-P1-11, A5-P-TUE-P1-12, A5-P-TUE-P1-13 A5-0-WED-AM2 A5-P-TUE-P1-10 C4-0-THU-AM2 E2-0-WED-AM2 D4-0-WED-AM2 D8-0-THU-PM1 D8-P-TUE-P1-3, D3-0-WED-AM2 B3-0-TUE-P1-3, D3-0-WED-AM2 B3-0-TUE-P1-3, D3-0-WED-AM2
Detville, Marie-Helene Detville, Remi Detville, Rémi Detville, Rémi Dembinski, Lucas Demes, Thomas Demirkas, Muhammet Demirtas, Muhammet DEMOISSON, Frédéric Demuynck, Ruben Dendievel, Remy Dendrinou-Samara, C. Dendrinou-Samara, Catherine Deng, Dunyong Deng, Yue Deng, Yun Dengg, Thomas Denoual, Christophe Denquin, Anne DENQUIN, Anne	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-3, C10-P-THU-P2-6 B11-0-TUE-PM2 C3-0-FRI-AM2 B7-0-FRI-AM2 E6-0-FRI-PM1, C9-0-THU-PM1 A5-P-TUE-P1-11, A5-P-TUE-P1-12, A5-P-TUE-P1-13 A5-0-WED-AM2 A5-P-TUE-P1-9, A5-P-TUE-P1-10 C4-0-THU-AM2 E2-0-WED-AM2 D4-0-WED-AM2 D8-0-THU-PM1 D8-P-TUE-P1-3, D3-0-WED-AM2 B3-0-TUE-P1-3, D3-0-WED-AM2 B3-0-TUE-PM1
Detville, Marie-Helene Detville, Remi Detville, Rémi Detville, Rémi Dembinski, Lucas Demes, Thomas Demirkasen, Secil Demirtas, Muhammet Demirtas, Muhammet DEMOISSON, Frédéric Demuynck, Ruben Dendievel, Remy Dendrinou-Samara, C. Dendrinou-Samara, Catherine Deng, Dunyong Deng, Yue Deng, Yun Dengg, Thomas Denoual, Christophe Denquin, Anne	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-3, C10-P-THU-P2-3, C10-P-THU-P2-6 B11-0-TUE-PM2 C3-0-FRI-AM2 B7-0-FRI-AM2 E6-0-FRI-PM1, C9-0-THU-PM1 A5-P-TUE-P1-11, A5-P-TUE-P1-12, A5-P-TUE-P1-13 A5-0-WED-AM2 A5-P-TUE-P1-9, A5-P-TUE-P1-10 C4-0-THU-AM2 E2-0-WED-AM2 D4-0-WED-AM2 D8-0-THU-PM1 D8-P-TUE-P1-3, D3-0-WED-AM2 B3-0-TUE-PM1 B3-0-TUE-PM2 D8-0-THU-PM1
Detville, Marie-Helene Detville, Remi Detville, Rémi Detville, Rémi Dembinski, Lucas Demes, Thomas Demirkas, Muhammet Demirtas, Muhammet DEMOISSON, Frédéric Demuynck, Ruben Dendievel, Remy Dendrinou-Samara, C. Dendrinou-Samara, Catherine Deng, Dunyong Deng, Yue Deng, Yun Dengg, Thomas Denoual, Christophe Denquin, Anne DENQUIN, Anne	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-3, C10-P-THU-P2-6 B11-0-TUE-PM2 C3-0-FRI-AM2 B7-0-FRI-AM2 E6-0-FRI-PM1, C9-0-THU-PM1 A5-P-TUE-P1-11, A5-P-TUE-P1-12, A5-P-TUE-P1-13 A5-0-WED-AM2 A5-P-TUE-P1-9, A5-P-TUE-P1-10 C4-0-THU-AM2 E2-0-WED-AM2 D4-0-WED-AM2 D8-0-THU-PM1 D8-P-TUE-P1-3, D3-0-WED-AM2 B3-0-TUE-P1-3, D3-0-WED-AM2 B3-0-TUE-PM1
Detville, Marie-Helene Detville, Remi Detville, Rémi Delville, Rémi Dembinski, Lucas Demes, Thomas Demirkas, Muhammet Demirtas, Muhammet Demirtas, Muhammet Demolisson, Frédéric Demuynck, Ruben Dendievel, Remy Dendrinou-Samara, C. Dendrinou-Samara, Catherine Deng, Dunyong Deng, Yue Deng, Thomas Denoual, Christophe Denquin, Anne DENQUIN, Anne Dequeker, Jérôme	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-3 C10-P-THU-P2-6 B11-0-TUE-PM2 C3-0-FRI-AM2 B7-0-FRI-AM2 E6-0-FRI-PM1, C9-0-THU-PM1 A5-P-TUE-P1-11, A5-P-TUE-P1-12, A5-P-TUE-P1-13 A5-0-WED-AM2 A5-P-TUE-P1-10 C4-0-THU-AM2 E2-0-WED-AM2 D4-0-WED-AM2 D8-0-THU-PM1 D8-P-TUE-P1-3, D3-0-WED-AM2 B3-0-TUE-PM1 B3-0-TUE-PM1 B3-0-TUE-PM1 B3-0-TUE-PM2 D8-0-THU-AM2 D8-0-THU-PM1
Detville, Marie-Helene Detville, Remi Detville, Rémi Detville, Rémi Dembinski, Lucas Demes, Thomas Demirkas, Muhammet Demirtas, Muhammet DEMOISSON, Frédéric Demuynck, Ruben Dendievel, Remy Dendrinou-Samara, C. Dendrinou-Samara, Catherine Deng, Dunyong Deng, Yue Deng, Yue Deng, Thomas Denoual, Christophe Denquin, Anne DENQUIN, Anne Dequeker, Jérôme Dera, Wojciech Dérès, Julien Desbordes, Mathieu	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-3, C10-P-THU-P2-6 B11-0-TUE-PM2 C3-0-FRI-AM2 B7-0-FRI-AM2 E6-0-FRI-PM1, C9-0-THU-PM1 A5-P-TUE-P1-11, A5-P-TUE-P1-12, A5-P-TUE-P1-13 A5-0-WED-AM2 A5-P-TUE-P1-9, A5-P-TUE-P1-90 A5-P-TUE-P1-90 A5-P-TUE-P1-90 A5-P-TUE-P1-90 A5-P-TUE-P1-90 A5-P-TUE-P1-90 A5-P-TUE-P1-90 A5-P-TUE-P1-90 A5-P-TUE-P1-90 A5-P-TUE-P1-90 B5-0-THU-PM1 B8-0-THU-PM1 B8-0-THU-PM1 B3-0-TUE-PM2 B3-0-TUE-PM2 B3-0-TUE-PM2 D4-0-WED-AM2 D4-0-WED-AM2 B3-0-TUE-PM1 B3-0-TUE-PM2 D4-0-WED-AM2 D4-0-WED-AM2 D4-0-WED-AM2 B3-0-TUE-PM1 B3-0-TUE-PM1 B3-0-TUE-PM2 D4-0-WED-AM2
Detville, Marie-Helene Detville, Remi Detville, Rémi Detville, Rémi Dembinski, Lucas Demes, Thomas Demirkas, Muhammet Demirtas, Muhammet DEMOISSON, Frédéric Demuynck, Ruben Dendievel, Remy Dendrinou-Samara, C. Dendrinou-Samara, Catherine Deng, Dunyong Deng, Yue Deng, Yun Dengg, Thomas Denoual, Christophe Denquin, Anne DENQUIN, Anne Dequeker, Jérôme Dera, Wojciech Dérès, Julien	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-3, C10-P-THU-P2-3, C10-P-THU-P2-6 B11-0-TUE-PM2 C3-0-FRI-AM2 B7-0-FRI-AM2 E6-0-FRI-PM1, C9-0-THU-PM1 A5-P-TUE-P1-11, A5-P-TUE-P1-12, A5-P-TUE-P1-13 A5-0-WED-AM2 A5-P-TUE-P1-9, A5-P-TUE-P1-9, A5-P-TUE-P1-9, A5-D-TUE-P1-9, A5-D-TUE-P1-9, A5-D-TUE-P1-10 C4-0-THU-AM2 E2-0-WED-AM2 D4-0-WED-AM2 D8-0-THU-PM1 D8-P-TUE-P1-3, D3-0-WED-AM2 B3-0-TUE-PM1 B3-0-TUE-PM2 B3-0-TUE-PM2 B3-0-TUE-PM2 C1-II-P-THU-P2-9 D2-0-WED-AM2 A6-0-THU-PM2 B1-0-WED-PM1
Detville, Marie-Helene Detville, Remi Detville, Rémi Detville, Rémi Dembinski, Lucas Demes, Thomas Demirkas, Muhammet Demirtas, Muhammet DEMOISSON, Frédéric Demuynck, Ruben Dendievel, Remy Dendrinou-Samara, C. Dendrinou-Samara, Catherine Deng, Dunyong Deng, Yue Deng, Yue Deng, Thomas Denoual, Christophe Denquin, Anne DENQUIN, Anne Dequeker, Jérôme Dera, Wojciech Dérès, Julien Desbordes, Mathieu	F3-0-THU-AM2 A5-H-WED-AM2 E4-0-WED-PM1 E4-0-WED-PM1 D9-P-TUE-P1-11 C3-0-THU-PM1 A7-H-THU-PM1 C8-P-THU-P2-3, C10-P-THU-P2-6 B11-0-TUE-PM2 C3-0-FRI-AM2 B7-0-FRI-AM2 E6-0-FRI-PM1, C9-0-THU-PM1 A5-P-TUE-P1-11, A5-P-TUE-P1-12, A5-P-TUE-P1-13 A5-0-WED-AM2 A5-P-TUE-P1-9, A5-P-TUE-P1-90 A5-P-TUE-P1-90 A5-P-TUE-P1-90 A5-P-TUE-P1-90 A5-P-TUE-P1-90 A5-P-TUE-P1-90 A5-P-TUE-P1-90 A5-P-TUE-P1-90 A5-P-TUE-P1-90 A5-P-TUE-P1-90 B5-0-THU-PM1 B8-0-THU-PM1 B8-0-THU-PM1 B3-0-TUE-PM2 B3-0-TUE-PM2 B3-0-TUE-PM2 D4-0-WED-AM2 D4-0-WED-AM2 B3-0-TUE-PM1 B3-0-TUE-PM2 D4-0-WED-AM2 D4-0-WED-AM2 D4-0-WED-AM2 B3-0-TUE-PM1 B3-0-TUE-PM1 B3-0-TUE-PM2 D4-0-WED-AM2

EUROMAT2017 23<u>9</u>

Desgardin, Pierre	D9-I/K-WED-PM2, D9-O-WED-PM2,	Dimitrakopulos, George	D2-P-TUE-P1-2, D2-H-TUE-PM1,	Do, Jeonghyeon	B3-0-M0N-AM2
	E4-H-TUE-PM2	•	D2-O-WED-PM2	Dobatkin, S.V.	C10-P-THU-P2-3
Deshmukh, Rajendrasing	C1-O-FRI-PM1		D2-P-TUE-P1-5,	Dobatkin, Sergey	B4-O-THU-AM2, B4-P-THU-P2-1,
Desmurs, Jean-Roger	E2-P-TUE-P1-11	Dimitrakopulos, George P.	D2-P-TUE-P1-8, A2-P-THU-P2-9,	,	B4-H-THU-PM2
DESSOLIER, Thibaut	D4-O-MON-PM1	Similar diopards, soorge 1.	D2-O-MON-AM2,	Döbbeler, Benjamin	C9-O-THU-AM2,
Detavernier, Christophe	E2-0-TUE-PM1		D2-P-TUE-P1-20		C9-P-THU-P2-7
Detemple, Eric	B1-0-FRI-PM1	Dimitrakopulos, George P.	D2-P-TUE-P1-21	Dobrea, Cosmin	E4-0-TUE-PM2
Detlefs, Carsten	D1-P-TUE-P1-2	Dimitrakopulos, Georgios	D2-O-WED-PM1,	Dobroň, Patrik	B11-P-TUE-P1-15
Detsch, Rainer	F4-0-MON-AM2	Production CA	D2-P-TUE-P1-6	Dobrynin, Alexander N.	A8-0-M0N-PM1
Devaux, Alexandre	B3-O-WED-PM1	Dimitriadis, CA	C11-O-THU-PM2	Dodds, Steve	A6-O-FRI-AM2
Devès, Guillaume	A5-H-WED-AM2	Dimitriadis, Charalabos	C11-P-THU-P2-3	Dodony, E.	D2-P-TUE-P1-16
Devic, Thomas	B7-0-WED-PM1	Dimitriadis, Konstantinos	F1-P-TUE-P1-11	Dogan, Emrehan	C8-P-THU-P2-6
Devic, Thomas	B7-0-WED-PM1	Dimitriadis, Panagiotis	B10-P-TUE-P1-8	Dogan, Sedat	A5-O-TUE-PM2, D
Deville, Sylvain	F6-O-FRI-AM2	Dimitrios, Zagkliveris	C1-I-P-TUE-P1-8		H-WED-PM1
Device, Sylvani Devoisselle, Jean-Marie	F1-0-MON-PM2	Dimoulas, Ahanasios	C11-I/K-FRI-AM2	DOGEUN, III	C1-O-THU-PM1
•	H3-O-MON-AM2	Dinca, P.	E4-P-THU-P2-1, E4-O-WED-PM2	Dohnke, Elmar	E1-I/K-MON-PM2
Dewulf, Jo			A7-I/K-FRI-AM2,	Dojka, Rafał	C8-O-FRI-AM2
Dey, Dibyendu	A8-O-MON-PM2	Dinescu, Maria	C2-P-TUE-P1-9	Dolbnya, Igor	D1-O-FRI-PM1
Dey, Poulumi	B1-0-FRI-AM2	Ding, Feng	C1-O-WED-PM2	Döllgast, Moritz	B3-O-WED-PM2
Dezellus, O.	C5-O-FRI-AM2	Diplas, S.	E3-H-WED-PM1	Dolzhenko, Pavel	C10-H-THU-PM1
Dezerald, Lucile	B3-O-MON-PM1		E3-O-MON-AM2,	Domain , Christophe	D9-P-TUE-P1-15
Di Blasi, Alessandra	E2-0-M0N-AM2,		E3-O-MON-PM2,	Domain, Christophe	B11-0-WED-PM1,
	E2-O-TUE-AM2 E2-O-MON-AM2,	Diplas, Spyros	E3-P-TUE-P1-20,		D9-P-TUE-P1-17
Di Blasi, Orazio	E2-0-MUN-AM2, E2-0-TUE-AM2		E3-P-TUE-P1-21, E3-P-TUE-P1-22,	Domínguez-Ortiz, Armando	A1-0-FRI-PM1
Di Carlo, Aldo	B7-0-FRI-PM1		E3-O-WED-PM1	Dominici, Christian	D2-O-TUE-AM2
Di Cicco, Andrea	D1-O-WED-PM2	Diplas, Spyros	D2-P-TUE-P1-28	Domitner, Josef	C2-O-TUE-PM1,
	E4-0-WED-PM1.,	Dirin, Dmitry N.	D1-0-TUE-AM2		E6-0-THU-PM1
Di Fonzo, Fabio	E4-0-WED-PM2,		C10-P-THU-P2-7,	Donà, Lorenzo	B7-0-THU-PM1
	E2-0-TUE-AM2	Dirras, Guy	B11-0-TUE-PM2,	Dong, Jie	B2-O-TUE-PM2
Di Gabriele, Fosca	D9-P-TUE-P1-10, D9-O-MON-PM1,	• •	C10-O-THU-PM2, B11-P-TUE-P1	Dong, N.	A7-II-P-THU-P2-1
DI GADI IELE, FUSCA	B11-0-WED-PM1	Dislaki, Evangelia	C1-O-THU-PM1	Dong, Tao	B3-O-MON-PM1
Di Michiel, Marco	D1-P-TUE-P1-30		C8-O-THU-PM1,	Dong, Xianghuai	C9-O-THU-PM2
Di Santo, Giovanni	A1-0-FRI-PM1		C8-O-THU-PM1,	Donnadieu, Patricia	B1-0-WED-PM1
Di Schino, Andrea	B1-0-THU-PM1		C8-P-THU-P2-4,	Donnelly, S.E	A7-0-FRI-AM2
Di Tommaso, Devis	D2-P-TUE-P1-17		C8-O-THU-PM1, B9-P-THU-P2-4,	Donnelly, Stephen E	E4-0-WED-AM2
	E1-0-MON-AM2,		C8-P-THU-P2-5,	Donnelly, Stephen E.	E4-0-WED-PM1
Di Vona, Maria Luisa	E2-O-WED-AM2		C8-P-THU-P2-6, C8-P-THU-P2-7,	Donnet, Christophe	C1-O-FRI-AM2
Di Vona, Maria-Luisa	E1-P-TUE-P1-2		C8-O-THU-PM1,	Doquet, Veronique	B4-0-THU-PM1
Diallo, Moustapha	C5-O-THU-PM2	Dispinar, Derya	C8-P-THU-P2-10,	Dorey, Robert	E3-H-MON-PM2,
Diamantakos, Ioannis	C4-O-WED-PM2		C8-P-THU-P2-11, C8-P-THU-P2-12,	burey, Robert	C9-O-THU-PM1
Dias, Anderson	C3-P-THU-P2-1		C8-P-THU-P2-13,	Dorin, Thomas	B2-O-MON-PM1, B2-P-TUE-P1-18
Dias, M.	E4-0-THU-AM2		C8-P-THU-P2-14,	Dorogin, Leonid	D4-H-TUE-PM2
Dias, Marta	E4-P-THU-P2-5		C8-O-THU-AM2, C8-P-THU-P2-15,	Dorogin, Leonia	D4-H-TUE-PM2,
Diaz, Ana	D1-O-WED-PM1		C8-P-THU-P2-16,	Dorogov, Maksim	D2-0-WED-PM2
Diaz, J.G.	B10-0-TUE-AM2		C8-O-THU-AM2,	Dorozhkin, Sergey	F1-P-TUE-P1-1
Diaz, MArio	C2-P-TUE-P1-4		C8-P-THU-P2-17, C8-O-THU-AM2	Dorrer, Philipp	C5-O-FRI-PM1
			C8-P-THU-P2-24,	Dou, Yankun	D10-II-P-THU-P2-
Diaz-Tajada, Esperanza	G1-P-TUE-P1-1	DIŞPINAR, Derya	C8-P-THU-P2-25	dou, Yankun	D6-P-THU-P2-1
Dickerson, James H	A5-P-TUE-P1-3	Dışpınar, Derya	C1-O-WED-PM1,	•	B3-O-TUE-AM2
Didier, Paul	F4-0-M0N-PM1	Dişpinar, Der ya	C8-O-FRI-AM2	Douglas, James	
Dieguez Salgado, Uxia	C5-O-FRI-PM1	Dışpınar, Derya	C8-O-THU-PM1, C8-P-THU-P2-3	Douillard, Thierry	E2-O-TUE-PM2
Diehl, Martin	B2-O-TUE-PM2		D2-O-WED-PM2,	Douin, Joël	B3-O-WED-PM1
Diehm, R.	C11-O-FRI-PM1	Distaso, Monica	A8-O-MON-PM2	Doundoulakis, George	C11-O-THU-PM2
Diemant, Thomas	E2-P-TUE-P1-24	Dittrich, Carsten	H2-O-MON-AM2	Dowey, Patrick	D1-O-WED-AM2, D1-P-TUE-P1-29
Diemar, Andreas	B10-0-M0N-AM2	Divinski, S.V.	B8-O-WED-PM1	Dragatogiannis, Dimitrios	E6-P-THU-P2-4
Dierre, Benjamin	A5-0-M0N-AM2		B8-O-WED-PM1,	Dragoe, Diana	E3-P-TUE-P1-5
Dietrich, Kai	C4-O-FRI-AM2	Divinski, Sergiy	D5-O-THU-PM1,		B8-P-THU-P2-5
Dietzel, Wolfgang	B10-0-TUE-PM2		B8-O-THU-AM2	Dragut, Valentin	
Díez Muiño, Ricardo	D8-P-TUE-P1-1	Djenizian, Thierry	E2-I/K-TUE-PM1, E2-O-WED-AM2,	Drakopoulos, Vassileios	B5-O-MON-AM2
Diez-Mérida, Jaime	F3-0-WED-PM2	Systillary Thiorty	E2-P-TUE-P1-18	Drautz, Ralf	D8-O-FRI-AM2, D10-O-WED-PM2,
•	C1-II-P-THU-P2-20,	DJENIZIAN, Thierry	E2-0-TUE-PM1		D8-I/K-WED-AM2
Dikici, Burak	B10-0-THU-PM1	Djotyan, Anahit P.	A1-P-THU-P2-12	Drawin, Stefan	C3-O-THU-PM1
Dille, Jean	B3-P-TUE-P1-1	Djuidje Dzumgam, Josiane Christelle	C1-O-TUE-AM2	DRAWIN, Stefan	B3-O-TUE-PM2
Dillinger, Cornel	F2-P-THU-P2-9	Djurado, Elisabeth	F4-P-TUE-P1-4	Draxl, Claudia	D8-O-THU-PM1
Dilman, Helen	B6-0-WED-AM2	Dlouhy, Antonin	B3-0-M0N-AM2	Drillet, Josée	B1-O-TUE-PM2
Dimakis, Emmanouil	D2-O-WED-PM1			Drnec, Jakub	D1-0-THU-PM2
·	C11-O-FRI-AM2,	Dlouhy, Ivo	B8-0-THU-PM1	Dronkowski, Richard	D3-P-THU-P2-11
Dimitrakis, Panagiotis	C11-P-THU-P2-6,	Dłużewski, Paweł	D2-0-WED-PM1	Droseros, N	C11-0-FRI-PM1
	C11-P-THU-P2-7	Dmitrienko , Anton	B5-P-TUE-P1-18		
		D '' ' W '' '	D3-O-THU-AM2	Drouet, Michel	B3-P-TUE-P1-6
Dimitrakis, Panagiotis	C11-O-THU-PM2	Dmitriev, Vladimir Dmytriv, Grygoriy	A7-I-P-TUE-P1-3	Drouven, Carsten	D2-O-MON-PM1

Drozdov, Aleksander	D3-I/K-WED-AM2	Dykeman, Donna	D10-O-WED-AM2, H3-O-MON-PM1	Ellerby, Donald	A6-I/K-THU-PM2
Drożdż, Monika	C1-H-MON-PM1	Dymek, Stanisław	C1-I-P-TUE-P1-6	Elleuch, Khaled	B10-0-WED-AM2
Drożyński, Dariusz	C8-O-THU-PM2	Dymek, Stanistaw	C5-O-FRI-PM1,	Ellinas, Kosmas	C1-O-THU-AM2, D2-O-THU-AM2
Drummond, Carlos	A1-O-FRI-PM1	Dziekoński, Cezary	D2-P-TUE-P1-23,	Elliott, Amelia	C4-O-THU-PM2
Du Terrail, Yves	B1-P-THU-P2-10		C1-II-P-THU-P2-9	ELMAANA, Sana	B11-0-WED-AM2
Du, Chaowei	D4-O-MON-AM2,	E			
D., Ch.,	D2-O-MON-PM1	E. L. Silva, Alessandro	A1-P-THU-P2-3	Elmay, Wafa	B2-0-WED-PM1
Du, Chuan-ming	H2-O-MON-PM2	Eason, Robert	C2-O-MON-PM2	Elmi Hosseini, Seyed Reza	C6-P-TUE-P1-10
Du, X	D1-0-THU-PM2	Ebner, Christian	D4-O-TUE-PM1	El-Sagheer, Afaf	A5-O-MON-PM1, A5-P-TUE-P1-5,
Duan, Xiaoming	B5-O-TUE-AM2	Ebrahimi, Alireza	D10-H-WED-PM1		A5-P-TUE-P1-7
Duarte de Araújo, Francisco	B10-0-TUE-PM1	Echeberria, Alberto	C4-P-THU-P2-14	El-Sagheer, Afaf H.	A5-0-WED-PM2
Duarte, José F	C9-P-THU-P2-11		B9-H-THU-PM1,	Elsner, Beatrix	D8-O-THU-PM1
Dubchak , Switlana	A7-II-P-THU-P2-11	Eckert, Jürgen	B9-H-THU-PM2, B11-O-WED-AM2,	Emadinia, Omid	B6-P-TUE-P1-2
Dubertret, Benoït	D2-O-WED-PM1	, : 5	C6-P-TUE-P1-8,	Emdadi, Arezoo	B5-0-M0N-PM1
Dubinskiy, Sergey	C10-H-FRI-PM1		B9-O-THU-AM2	Emelyanova, Olga	D2-O-WED-PM2
Dubois, Jean-baptiste	B3-P-TUE-P1-6	Economides, Athena	D10-O-THU-PM1	Emil, Elif	D2-P-TUE-P1-27,
Dubois, Jean-Baptiste	B3-0-WED-AM2	Edalati, Kaveh	C10-I/K-WED-AM2		C1-II-P-THU-P2-14
Dubourg, Georges	C11-P-THU-P2-14	Eder, Michaela	F6-0-THU-PM1	Emmanuel, Rigal	C9-O-THU-PM1
Duc, Caroline	A3-O-MON-PM2	Ederer, Claude	A8-0-MON-PM2	Emmelmann, Claus	C2-P-TUE-P1-6
Duchaussoy, Amandine	C10-H-THU-PM2	Edmondson, Phillip D.	H1-O-MON-PM2	Emmer, Štefan	C1-I-P-TUE-P1-11
Duchet-rumeau, Jannick	A3-0-M0N-PM2	Edouard, David	C1-I-P-TUE-P1-1	Emmerich, Heike	D5-H-FRI-AM2
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C1-II-P-THU-P2-3	Fongarland, Pascal	C1-I-P-TUE-P1-1
D1-P-TUE-P1-1,	Fonseca, Carlos	B10-0-WED-PM1
D3-P-THU-P2-2 A7-II-P-THU-P2-3,	Fontaine, Charly	C11-O-THU-AM2
C2-P-TUE-P1-9	Fontcuberta i Morral, Anna	E3-P-TUE-P1-12
C2-P-TUE-P1-8	Forêt, Pierre	C4-O-FRI-AM2, C4-O-WED-AM2
E2-P-TUE-P1-12	FORI, Benoît	C1-O-THU-PM2
E2-P-TUE-P1-14	Forien, Jean-Baptiste	F6-0-THU-PM1
D6-0-FRI-AM2	Formoso, Vincenzo	E3-0-WED-PM2
D8-O-THU-PM1,	Fornabaio, Marta	F5-0-FRI-AM2
D8-O-THU-AM2 C4-O-FRI-AM2.	Fornasari, Lucia	F3-0-THU-PM1
C4-O-FRI-AM2	Fornell , Jordina	F4-0-MON-PM2
C4-0-FRI-AM2,	Fornell, Jordina	C3-P-THU-P2-13
B9-I/K-THU-AM2	Forouzan, Farnoosh	C8-O-THU-AM2
B8-O-WED-PM2 F2-P-THU-P2-9	Förster, Christiane	B8-H-THU-PM1
F2-P-THU-P2-9 F2-0-WED-AM2	Forzan, Michele	C9-O-THU-PM2
F2-P-THU-P2-3,	Fossati, Paul	E4-P-THU-P2-7
F1-P-TUE-P1-7,	Foteinopoulos, Panagis	B11-P-TUE-P1-11
F2-P-THU-P2-5, F1-0-TUE-PM1	Fotsis, Theodoros	F1-0-M0N-AM2
F1-D-TUE-PMT	Fouletier, Jacques	A9-O-FRI-PM1
F2-P-THU-P2-7	Fountas, Nikolaos	C9-O-FRI-AM2
A3-P-TUE-P1-22	Fourlaris, George	B11-O-MON-PM2
A7-0-WED-PM2	Fournel, Frank	D4-P-TUE-P2-1
E1-0-MON-PM2,	Foy, Eddy	E2-0-M0N-PM2
E1-H-MON-PM2,		B8-P-THU-P2-1,
E1-P-TUE-P1-1, E1-I/K-MON-PM2	Fraczkiewicz, Anna	B8-P-THU-P2-3, B8-O-THU-AM2,
B3-0-WED-PM2	· 1	B8-P-THU-P2-6,
B8-P-THU-P2-13		B8-O-THU-AM2
A9-O-FRI-AM2	Fraczkiewicz, Anna	B8-O-THU-AM2
C1-O-THU-AM2	Fradet, Clémence	D4-O-TUE-PM1
C4-0-FRI-AM2,	Frage, Naum	B6-O-WED-AM2
F4-0-MON-PM1	Fragouli, Despina	A3-0-TUE-AM2, A3-0-M0N-PM1,
B10-0-WED-AM2		A3-O-MON-PM2
D1-0-FRI-PM1	Franceschetti, Fabio	C4-O-THU-PM1
D10-0-WED-PM2	Franceschi, Sophie	F1-0-M0N-AM2
B11-0-TUE-AM2	Franchitti, Stefania	A6-II-P-THU-P2-3
E4-P-THU-P2-6, E4-P-THU-P2-7	François, Elise	H2-P-TUE-P1-11
B11-0-WED-PM2,	Francoual, Sonia	A8-O-MON-PM1
B3-O-MON-AM2	Frangis, Nikolaos	D2-P-TUE-P1-16
A2-0-THU-PM1	Franke, Peter	E4-0-THU-AM2
E3-0-MON-PM2	Frankel, Philipp	E4-0-WED-PM2, E4-0-WED-AM2
E2-O-TUE-AM2,	Frankel, Philipp	D1-O-THU-PM1
E2-P-TUE-P1-15 F6-O-THU-PM1,		E3-0-WED-PM1,
B11-0-TUE-PM1,	Franz, Alexandra	E3-P-TUE-P1-9
D4-O-WED-PM1	Fraser, Hamish	B2-I/K-TUE-AM2
D5-H-FRI-AM2	Frateri, Miranda	C4-O-THU-PM1
E3-0-TUE-AM2		F6-O-THU-PM2, F6-O-THU-PM2,
C8-O-FRI-AM2	Fratzl, Peter	F6-0-THU-PM1,
A7-0-TUE-PM2		F6-O-THU-PM1
E6-O-THU-PM2, E6-O-THU-PM1, E6-	Frayret, Jérôme	C1-O-THU-PM2
O-THU-PM1	Fredel, Márcio	F6-P-THU-P2-1, F1-O-TUE-PM2
B10-0-TUE-PM1	Fredel, Márcio	F4-0-M0N-PM1
E6-0-THU-PM1, E6-	Fredette, Robert	H1-H-TUE-AM2
0-THU-PM1	Fredriksson, Claes	H3-0-M0N-PM1
A7-I-P-TUE-P1-5 B6-P-TUE-P1-20	Fredriksson, Gunnel	C4-O-THU-AM2
A2-H-WED-PM1	Fredriksson, Wendy	C4-O-THU-AM2
A7-0-WED-PM1	Freiherr von Thüngen, Immanuel	B2-O-TUE-PM2
B6-0-TUE-PM1	Freire, José L.F.	B10-0-TUE-AM2
F6-0-FRI-AM2		D9-I/K-TUE-PM2,
F6-0-FRI-PM1,	Freis, Daniel	D9-O-WED-PM2
A7-0-FRI-AM2,	Freitag, Stefanie	E2-0-TUE-PM2
A7-0-FRI-AM2	Freslier, Mathias	E6-0-THU-PM1
C1-O-MON-PM2	Fresnais, Jérôme	A3-O-MON-PM1
E1-0-TUE-PM2	Fresnais, Jérôme	A5-O-MON-PM1
		DO O WED DM1
D2-P-TUE-P1-21	Facilitation (Co.)	B8-O-WED-PM1,
D2-P-TUE-P1-21 C10-P-THU-P2-1	Freudenberger, Jens	B4-H-FRI-AM2, B8-O-THU-PM1

Friak, Martin	D5-O-FRI-PM1, D8-O-FRI-AM2, A7-H-MON-PM2, D8-O-WED-AM2
Friák, Martin	B1-O-FRI-AM2, D8-O-THU-PM1
Fricke, Konrad	B3-P-TUE-P1-8
Friedl, Martin	E3-P-TUE-P1-12
Friedrich, Bernd	H2-O-MON-AM2
Friedrich, Horst E.	B2-0-M0N-AM2
Frison, Ruggero	D1-0-TUE-AM2
Frogley, Mark	B7-0-WED-PM2
Frolov, Genadij	A6-II-P-THU-P2-2
Frolov, Genadiy	A6-I-P-TUE-P1-4
Fromme, Petra	D1-P-TUE-P1-20
Frontera, Carlos	A2-H-WED-PM1, A8-O-MON-AM2
Fruchart, Daniel	A7-O-THU-AM2
Frutos Torres, Emilio	F4-P-TUE-P1-9, C1-O-MON-PM2
Fu, Chu Chun	D8-O-WED-PM1, D9-P-TUE-P1-9
Fu, Xue-song	C6-O-MON-PM1
Fuentes-Edfuf, Yasser Fuerderer, Tobias	F6-O-FRI-PM1 F5-O-FRI-AM2
•	C10-I/K-WED-AM2
Fuji, Masayoshi	
Fujiki, Yuya	B11-O-WED-PM2 F1-I/K-TUF-AM2
Fujimaki, Yoshinobu	D3-O-WED-PM2
Fujita, Naoya Fuks, David	E3-0-TUE-PM1
Fukuto, Masafumi	A7-H-WED-AM2
Fula, Diogo	C4-P-THU-P2-8
Fumagalli, Francesco	E2-O-TUE-AM2
FUNDENBERGER, Jean Jacques	C10-0-WED-AM2
Funke, Matthias	C1-II-P-THU-P2-5
	A9-P-THU-P2-2,
Fuoco, Alessio	A9-0-FRI-PM1
Fürderer, Tobias	F5-O-FRI-AM2
Furlani, Ana María	B3-P-TUE-P1-5
Fürtauer, Siegfried	E2-O-TUE-AM2
Fuzer, Jan	B6-P-TUE-P1-25
U	D1 O WED DM1
G. Caballero, Francisca	B1-O-WED-PM1,
G. Caballero, Francisca	B1-H-WED-PM2
G. Caballero, Francisca	B1-H-WED-PM2 B1-P-THU-P2-5
G. Caballero, Francisca Gaalken, Janina	B1-H-WED-PM2 B1-P-THU-P2-5 A9-0-THU-PM2
G. Caballero, Francisca Gaalken, Janina Gåård, Anders	B1-H-WED-PM2 B1-P-THU-P2-5 A9-0-THU-PM2 B10-0-MON-PM1
G. Caballero, Francisca Gaalken, Janina Gåård, Anders Gabel, Johannes	B1-H-WED-PM2 B1-P-THU-P2-5 A9-0-THU-PM2 B10-0-MON-PM1 B3-0-WED-PM2
G. Caballero, Francisca Gaalken, Janina Gåärd, Anders Gabel, Johannes Gabriel, Tobias	B1-H-WED-PM2 B1-P-THU-P2-5 A9-0-THU-PM2 B10-0-M0N-PM1 B3-0-WED-PM2 C1-0-WED-PM1
G. Caballero, Francisca Gaalken, Janina Gåård, Anders Gabel, Johannes Gabriel, Tobias Gabrion, Xavier	B1-H-WED-PM2 B1-P-THU-P2-5 A9-0-THU-PM2 B10-0-M0N-PM1 B3-0-WED-PM2 C1-0-WED-PM1 B2-0-WED-PM1
G. Caballero, Francisca Gaalken, Janina Gåärd, Anders Gabel, Johannes Gabriel, Tobias Gabrion, Xavier GACOIN, Thierry	B1-H-WED-PM2 B1-P-THU-P2-5 A9-0-THU-PM2 B10-0-M0N-PM1 B3-0-WED-PM2 C1-0-WED-PM1 B2-0-WED-PM1 B6-0-WED-AM2
G. Caballero, Francisca Gaalken, Janina Gåård, Anders Gabel, Johannes Gabriel, Tobias Gabrion, Xavier GACOIN, Thierry Gaczynski, Piotr	B1-H-WED-PM2 B1-P-THU-P2-5 A9-0-THU-PM2 B10-0-M0N-PM1 B3-0-WED-PM2 C1-0-WED-PM1 B2-0-WED-PM1 B6-0-WED-AM2 A9-H-FRI-PM1
G. Caballero, Francisca Gaalken, Janina Gåärd, Anders Gabel, Johannes Gabriel, Tobias Gabrion, Xavier GACOIN, Thierry	B1-H-WED-PM2 B1-P-THU-P2-5 A9-0-THU-PM2 B10-0-M0N-PM1 B3-0-WED-PM2 C1-0-WED-PM1 B2-0-WED-PM1 B6-0-WED-AM2
G. Caballero, Francisca Gaalken, Janina Gåård, Anders Gabel, Johannes Gabriel, Tobias Gabrion, Xavier GACOIN, Thierry Gaczynski, Piotr Gadonneix, Philippe	B1-H-WED-PM2 B1-P-THU-P2-5 A9-O-THU-PM2 B10-O-MON-PM1 B3-O-WED-PM2 C1-O-WED-PM1 B2-O-WED-PM1 B6-O-WED-AM2 A9-H-FRI-PM1 H2-O-MON-AM2
G. Caballero, Francisca Gaalken, Janina Gåård, Anders Gabel, Johannes Gabriel, Tobias Gabrion, Xavier GACOIN, Thierry Gaczynski, Piotr Gadonneix, Philippe Gaertner, Daniel	B1-H-WED-PM2 B1-P-THU-P2-5 A9-O-THU-PM2 B10-O-MON-PM1 B3-O-WED-PM2 C1-O-WED-PM1 B2-O-WED-PM1 B6-O-WED-AM2 A9-H-FRI-PM1 H2-O-MON-AM2 B8-O-WED-PM1
G. Caballero, Francisca Gaalken, Janina Gåård, Anders Gabel, Johannes Gabriel, Tobias Gabrion, Xavier GACOIN, Thierry Gaczynski, Piotr Gadonneix, Philippe Gaertner, Daniel Gagaoudakis, E.	B1-H-WED-PM2 B1-P-THU-P2-5 A9-0-THU-PM2 B10-0-MON-PM1 B3-0-WED-PM2 C1-0-WED-PM1 B2-0-WED-PM1 B6-0-WED-AM2 A9-H-FRI-PM1 H2-0-MON-AM2 B8-0-WED-PM1 C1-II-P-THU-P2-7
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G. Caballero, Francisca Gaalken, Janina Gåård, Anders Gabel, Johannes Gabriel, Tobias Gabrion, Xavier GACOIN, Thierry Gaczynski, Piotr Gadonneix, Philippe Gaertner, Daniel Gagaoudakis, E. Gagaoudakis, E. Gagaoudakis, Emmanouil Gahbiche, Amen Gajewska, Marta Galan Lopez, Jesus	B1-H-WED-PM2 B1-P-THU-P2-5 A9-0-THU-PM2 B10-0-M0N-PM1 B3-0-WED-PM2 C1-0-WED-PM1 B2-0-WED-PM1 B6-0-WED-AM2 A9-H-FRI-PM1 H2-0-M0N-AM2 B8-0-WED-PM1 C1-II-P-THU-P2-7 C1-0-WED-AM2 B11-0-M0N-PM2 C8-0-THU-PM2 B11-0-WED-PM1
G. Caballero, Francisca Gaalken, Janina Gåård, Anders Gabel, Johannes Gabriel, Tobias Gabrion, Xavier GACOIN, Thierry Gaczynski, Piotr Gadonneix, Philippe Gaertner, Daniel Gagaoudakis, E. Gagaoudakis, E.mmanouil Gahbiche, Amen Gajewska, Marta Galan Lopez, Jesus Galanakis, losif	B1-H-WED-PM2 B1-P-THU-P2-5 A9-0-THU-PM2 B10-O-MON-PM1 B3-O-WED-PM2 C1-O-WED-PM1 B2-O-WED-PM1 B6-O-WED-AM2 A9-H-FRI-PM1 H2-O-MON-AM2 B8-O-WED-PM1 C1-II-P-THU-P2-7 C1-O-WED-AM2 B11-O-MON-PM2 C8-O-THU-PM2 B11-O-WED-PM1 A2-I/K-WED-PM1, E3-P-TUE-P1-2
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G. Caballero, Francisca Gaalken, Janina Gåård, Anders Gabel, Johannes Gabriel, Tobias Gabrion, Xavier GACOIN, Thierry Gaczynski, Piotr Gadonneix, Philippe Gaertner, Daniel Gagaoudakis, E. Gagaoudakis, E. Gagaoudakis, Emmanouil Gahbiche, Amen Gajewska, Marta Galan Lopez, Jesus Galanakis, losif Galarneau, Anne Galatanu, Andrei Galazka, Zbigniew Galceran, Regina Galeandro-Diamant, Thomas	B1-H-WED-PM2 B1-P-THU-P2-5 A9-0-THU-PM2 B10-0-MON-PM1 B3-0-WED-PM2 C1-0-WED-PM1 B2-0-WED-PM1 B6-0-WED-AM2 A9-H-FRI-PM1 H2-0-MON-AM2 B8-0-WED-PM1 C1-II-P-THU-P2-7 C1-0-WED-AM2 B11-0-MON-PM2 C8-0-THU-PM2 B11-0-WED-PM1 E3-P-TUE-P1-2 E2-0-WED-AM2 E4-0-TUE-PM2 A8-0-MON-AM2 A8-0-MON-AM2 A8-0-MON-AM2
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Gibson, Tomas A7-I-P-TUE-P1-17 Gierlotka, Stanislaw C3-P-THU-P2-3, B4-O-THU-M2 Giesbers, Merijn C2-0-MON-AM2 Gigli, Jiabril E2-P-TUE-P1-4 Gil, Aleksander B3-0-THU-AM2 Gil, Lorena B5-P-TUE-P1-13 Gilabert, Jessica C3-H-THU-PM1 Gilbert, Mark E4-0-TUE-PM2 Gili, Argyro C11-P-THU-P2-9 Gilić, Martina C3-P-THU-P2-10 Giljean, Sylvain B6-P-TUE-P1-8, C1-0-MON-AM2 Gill, Simon B3-P-TUE-P1-9 Gilles, Conor D1-0-THU-PM1 Gilles, Ralph B3-0-TUE-PM1 Gillespie, Andrew E1-P-TUE-P1-1, E1-V/K-MON-PM2 Gilliand, Douglas A5-0-MON-PM1 Gillespie, Karl B10-0-TUE-AM2 Gil-Rostra, Jorge A7-0-FRI-AM2 Girlalas, Marius B10-0-TUE-AM2 Giner, Ignacio C1-0-MON-PM2 Ginter, Joanna C1-0-THU-PM1 Girradeau, Thierry C1-0-THU-PM2 Giorradeau, Thierry A7-0-FRI-AM2 Girardeau, Thierry A7-0-FRI-AM2	Giaume, Domitille	E2-0-TUE-PM2
Gierlotka, Stanisław C3-P-THU-P2-3, 84-0-THU-AM2 Giesbers, Merijn C2-0-MON-AM2 Gigli, Jiabril E2-P-TUE-P1-4 Gil, Aleksander B3-0-THU-AM2 Gil, Lorena B5-P-TUE-P1-13 Gilabert, Jessica C3-H-THU-PM1 Gilbert, Mark E4-0-TUE-PM2 Gili, Argyro C11-P-THU-P2-9 Gilić, Martina C3-P-THU-P2-10 Giljean, Sylvain B6-P-TUE-P1-8, C1-0-MON-AM2 Gill, Simon B3-P-TUE-P1-9 Gille, Conor D1-0-THU-PM1 Gilles, Ralph B3-0-TUE-PH2-P1-1, E1-VK-MON-PM2 Gillespie, Andrew E1-P-TUE-P1-1, E1-VK-MON-PM2 Gillland, Douglas A5-0-MON-PM1 Gillland, Douglas A5-0-MON-PM1 Giller, Karl B10-0-TUE-AM2 Girl-Rostra, Jorge A7-0-FRI-AM2 Girler, Ignacio C1-0-MON-PM1 Giner, Ignacio C1-0-MON-PM2 Ginter, Joanna C1-0-THU-PM1, C1-II-P-THU-P2-15 Girner, Joanna C1-0-THU-PM1 Giorgi, Marie-Laurence C5-0-THU-PM2 Giorgi, Marie-Laurence C5-0	GIBOT, Pierre	C3-O-THU-PM2
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Gil, Lorena B5-P-TUE-P1-13 Gilabert, Jessica C3-H-THU-PM1 Gilbert, Mark E4-0-TUE-PM2 Gili, Argyro C11-P-THU-P2-9 Gilić, Martina C3-P-THU-P2-10 Giljean, Sylvain B6-P-TUE-P1-8, C1-0-MON-AM2 Gill, Simon B3-P-TUE-P1-9 Gillen, Conor D1-0-THU-PM1 Gilles, Ralph B3-0-TUE-PM1 Gillespie, Andrew E1-P-TUE-P1-1, E1-I/K-MON-PM2 Gilliland, Douglas A5-0-MON-PM1 Gillere, Karl B10-0-TUE-AM2 Gil-Rostra, Jorge A7-0-FRI-AM2 Giménez-Marqués, Monica F3-0-THU-PM1 Giner, Ignacio C1-0-MON-PM2 Gintalas, Marius B1-0-FRI-AM2 Ginter, Joanna C1-0-THU-PM1, C1-II-P-THU-P2-15 Ginter, Joanna C1-0-THU-PM2 Giorgi, Marie-Laurence C5-0-THU-PM2 Giorgi, Marie F1-0-MON-PM1 Girardeau, Thierry A7-0-FRI-AM2 Girardeau, Thierry A7-0-FRI-AM2 Girardeau, Thierry A7-0-FRI-AM2 Girardeau, Thierry A7-0-FRI-AM2	Gigli, Jiabril	E2-P-TUE-P1-4
Gilabert, Jessica C3-H-THU-PM1 Gilbert, Mark E4-0-TUE-PM2 Gili, Argyro C11-P-THU-P2-9 Gilić, Martina C3-P-THU-P2-10 Gilić, Martina B6-P-TUE-P1-8 C1-0-MON-AM2 Gill, Simon Gill, Simon B3-P-TUE-P1-8 Gillen, Conor D1-0-THU-PM1 Gillen, Ratph B3-0-TUE-PM1 Gillespie, Andrew E1-P-TUE-P1-1 E1-P-TUE-P1-1 E1-I/K-MON-PM2 Gillitland, Douglas A5-0-MON-PM1 Gillere, Karl B10-0-TUE-AM2 Girenez-Marqués, Monica F3-0-THU-PM1 Giner, Ignacio C1-0-MON-PM2 Giménez-Marqués, Monica F3-0-THU-PM1 Ginter, Joanna C1-0-THU-PM1 Ginter, Joanna C1-0-THU-PM2 Ginter, Joanna C1-0-THU-PM2 Giorgi, Marie-Laurence C5-0-THU-PM2 Giorgi, Marie-Laurence C5-0-THU-PM2 Giorgi, Marie-Laurence C5-0-THU-PM2 Giorgi, Marie F1-0-MON-PM1 Girardeau, Thierry A7-0-FRI-AM2 Girardeau, Thierry	Gil, Aleksander	B3-O-THU-AM2
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Gili, Argyro C11-P-THU-P2-9 Gilić, Martina C3-P-THU-P2-10 Giljean, Sylvain B6-P-TUE-P1-8 Gill, Simon B3-P-TUE-P1-9 Gillen, Conor D1-0-THU-PM1 Gilles, Ralph B3-0-TUE-PM1 Gillespie, Andrew E1-P-TUE-P1-1 Gilliand, Douglas A5-0-M0N-PM1 Gillner, Karl B10-0-TUE-AM2 Gil-Rostra, Jorge A7-0-FRI-AM2 Giménez-Marqués, Monica F3-0-THU-PM1 Giner, Ignacio C1-0-M0N-PM2 Gintalas, Marius B1-0-FRI-AM2 Ginter, Joanna C1-0-THU-PM1 Ginter, Joanna C1-0-THU-PM1 Giorgi, Marie-Laurence C5-0-THU-PM2 Giorgi, Marie-Laurence C5-0-THU-PM2 Giorgi, Marie F1-0-M0N-PM1 Girardeau, Thierry A7-0-FRI-AM2 Girardeau, Thierry A7-0-FRI-AM2 Girardeau, Thierry A7-0-FRI-AM2 Girardoun, Rémi C9-0-THU-PM1 Giroudon, Rémi C9-0-THU-PM1 Giroudon, Rémi C9-0-THU-PM2-6 Gisbert, Miguel	Gilabert, Jessica	C3-H-THU-PM1
Gilić, Martina C3-P-THU-P2-10 Giljean, Sylvain B6-P-TUE-P1-8, C1-0-MON-AM2 Gill, Simon B3-P-TUE-P1-9 Gillen, Conor D1-0-THU-PM1 Gilles, Ratph B3-0-TUE-PM1 Gillespie, Andrew E1-P-TUE-P1-1, E1-I/K-MON-PM2 Gilliand, Douglas A5-0-MON-PM1 Giller, Karl B10-0-TUE-AM2 Gil-Rostra, Jorge A7-0-FRI-AM2 Giner, Ignacio C1-0-MON-PM2 Gintalas, Marius B1-0-FRI-AM2 Ginter, Joanna C1-0-TUE-PM2 Giorgi, Maries-Laurence C5-0-THU-PM1, C1-III-P7-THU-P2-15 Giotro, Lidietta A9-0-FRI-PM1 Giorro, Lidietta A9-0-FRI-PM1 Giorrd, Sylvain C11-P-THU-P2-10 Girardeau, Thierry A7-0-FRI-AM2 Giraudon, Rémi C9-0-THU-PM1 Giroux, Pierre-François B1-0-THU-AM2, C4-0-WED-AM2 Gisbert, Miguel F2-P-THU-P2-7	Gilbert, Mark	E4-0-TUE-PM2
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Mostofi, Arash	XXX	Mulvihill, Daniel	A1-0-THU-PM2	Nam, Gyeong Duk	B5-P-TUE-P1-9
Moszner, Frank	D1-O-TUE-PM2	Mummery, Paul	B8-0-WED-PM2,	Namburi, Hygreeva Kiran	D9-P-TUE-P1-11
Motz, Christian	B1-0-FRI-PM1	Piulililei y, Faut	B7-P-THU-P2-12	Nanaki, Stavroula	A3-P-TUE-P1-23
Mouchaham, Georges	B7-0-WED-PM1	Munier, Pierre	A7-I-P-TUE-P1-2	Nanni, Francesca	C4-0-THU-PM1
Mougel, Charly	B3-O-MON-PM2	Munir, Shamsa	E3-0-TUE-AM2	Nannou, Rafaela	E1-0-M0N-AM2
Manager	E4-0-TUE-PM2,	Muñoz-Noval, Álvaro	A7-I-P-TUE-P1-14	Nanya, Daiki	B11-P-TUE-P1
Mougenot, J.	E4-P-THU-P2-12	Muñoz-Sanjosé, Vicente	A7-II-P-THU-P2-14	Naoum, ME	F3-O-THU-PM1
Mouis, Mireille	A7-H-THU-PM1	Münstermann, Sebastian	B10-0-TUE-AM2	Napoli, Giuseppe	B1-0-THU-PM1
Moulopoulos, Konstantinos	A1-P-THU-P2-12	Munz, Oliver	B10-0-WED-AM2	нароц, ошѕерре	C5-O-THU-PM2,
Moura, Francisco José	F4-P-TUE-P1-3	Muolo, M.L.	C5-O-FRI-AM2	Newton India	B6-P-TUE-P1-12,
Mourdikoudis, S.	A5-P-TUE-P1-11		C5-O-FRI-AM2,	Narciso, Javier	B5-0-M0N-AM2,
Mourdikoudis, Stefanos	A5-P-TUE-P1-9	Muolo, Maria Luigia	C5-P-THU-P2-3,		C5-O-THU-PM2
Mourdikoudis, Stephanos	A2-O-WED-PM2		C5-P-THU-P2-14	Nardecchia, Stefania	A1-P-THU-P2-3
Mouriño, Viviana	F1-P-TUE-P1-10	Muradov, Abyl	A3-P-TUE-P1-12	Nardin, Michel	E6-O-THU-PM1
Mourkas, Angelos	A2-H-THU-PM1		C10-O-WED-AM2, C10-H-THU-PM2,	Nardin, Philippe	E1-0-M0N-PM2
Mourlas, Athanasios	C1-H-TUE-AM2	Murashkin, Maxim	C10-P-THU-P2-8,	Narducci, Dario	E3-H-MON-PM1
Mousa, Marwan	B8-H-THU-PM1		B4-P-THU-P2-9,	Narducci, Riccardo	E1-0-MON-AM2,
Mousdis, George	E3-0-TUE-AM2	Marta Nata	B4-P-THU-P2-11	No. of Tour Code Alberta	E1-P-TUE-P1-2
Mousoutzanis, Konstantinos		Murata, Norio	F6-0-FRI-PM1	Narvaez Tovar , Carlos Alberto	B1-P-THU-P2-8
·	E6-0-THU-AM2	Murphy, Bridget	D1-P-TUE-P1-8	Narváez Tovar, Carlos Alberto	B1-P-THU-P2-7
Moustakas, Theodore	D2-0-WED-PM1	Murzaev, Ramil'	C10-H-WED-PM1	Nascimento, Rafael Barradas do	C1-II-P-THU-P2-3
Moutsios, Ioannis	F1-0-M0N-PM2, F1-P-TUE-P1-12	Musayev, Yashar	C1-I/K-WED-AM2	Naseri, Majid	B6-P-TUE-P1-17
Moutsios, Ioannis	F1-0-M0N-PM1	Musdal, Ertan	C8-O-THU-PM1	Nasibulin, Albert	E1-I/K-TUE-PM1
Mouzakis, Dionysios	A3-P-TUE-P1-20	Mushongera, Leslie T.	D5-H-FRI-AM2	Nasim, Wahaz	B4-P-THU-P2-2
	C1-O-THU-PM2,	Musil, Jindrich	C1-O-TUE-PM2	Nassiopoulou, A	C11-O-FRI-PM1
	C4-P-THU-P2-1,		A5-0-WED-PM2,	Nassiopoulou, Androula	E3-P-TUE-P1-19
	C9-O-THU-AM2,	Muskens, Otto	A5-O-MON-PM1, A5-P-TUE-P1-7		D9-P-TUE-P1-9,
Moverare, Johan	B11-0-M0N-AM2, C4-0-THU-AM2,	Muskens, Otto	A5-0-M0N-PM2	Nastar, Maylise	D9-P-TUE-P1-17, D10-O-FRI-AM2
	B3-0-WED-PM2,	Mustafa, Kamal	F1-0-MON-AM2	Nataf, Lucie	D3-0-WED-PM1
	D4-O-WED-AM2, B10-O-MON-PM2	Mustarelli, Piercarlo	E2-0-MON-AM2	Natkański, Piotr	F1-P-TUE-P1-17
Marian Davies	H2-O-TUE-PM1	Müstecaplıoğlu, Özgür	A7-II-P-THU-P2-21	Naumenko, D.	C1-H-TUE-PM1
Moyer, Bruce				•	E2-O-TUE-AM2
Mozdzen, G	A6-0-FRI-PM1	Mutlu, Mustafa	C6-P-TUE-P1-9	Nava, Giorgio	
Mozdzen, Grazyna	A6-O-FRI-PM1	Myasoedov, Alexander	D2-O-WED-PM2	Navarra, Maria Assunta	E2-H-WED-AM2, E2-P-TUE-P1-21
Mraczek, Klemens	B1-P-THU-P2-6	Mygdali, E.	F1-I/K-MON-PM1	Navarro, David	E4-P-THU-P2-10
Mroczka, Krzysztof	C10-O-THU-PM2	Myrovali, Eirini	A2-P-THU-P2-2, A2-O-THU-PM1,	Navarro, Gabriela	A1-P-THU-P2-6
	B8-P-THU-P2-1, B8-P-THU-P2-3,	Mylovaa, Elilli	A2-P-THU-P2-5	Navarro, Lucía	C1-O-TUE-PM1
Mroz, Michal	B8-0-THU-AM2,	Myrovali, Eirini	A2-P-THU-P2-6	Navarro-López, Alfonso	B1-0-WED-PM1
	B8-0-THU-AM2	Marile Aldana	F3-0-WED-PM2,		
M'Saoubi, Rachid	C9-O-THU-AM2	Mzyk, Aldona	F1-P-TUE-P1-17	Navonne, Christelle	E3-0-TUE-PM1
Mu, Sai	D8-O-THU-AM2	N		Nawaya, Tarik	E6-O-FRI-PM1
Mu, Xiaoke	D4-O-MON-PM1	Na, SH.	D2-P-TUE-P1-19	Naydenkin, Evgeny	E6-O-FRI-PM1
	C1-O-MON-PM1,	Na, Young Sang	B2-0-WED-PM1	Nazarov, Airat	C10-H-WED-PM1
	D2-O-TUE-AM2,	NA, Young Sang	B8-0-THU-PM1	Nazarov, Denis	F4-P-TUE-P1-2, F1-P-TUE-P1-8,
Mücklich, Frank	XXXI, B10-0- WED-PM1,	Na, Young-Sang	D4-O-MON-PM1	Mazarov _i Denia	C1-P-TUE-P1-16
	A7-H-THU-PM1,	Nachez, Juan Lucas	A1-P-THU-P2-3	Nazé, Loeïz	B3-O-THU-AM2
	F5-P-THU-P2-2	Nacucchi, Michele	D9-P-TUE-P1-6	Nazlidis, Andreas	A2-P-THU-P2-3
Mücklich, Frank	C1-O-THU-PM1	Nadaraia, Lili	C3-O-FRI-AM2	Neacsu, Loredana	C8-P-THU-P2-1
Mudes Felles	B6-P-TUE-P1-25,	Nádaždy, Peter	D1-O-TUE-AM2	Nedeljkovic, Borivoje	B11-P-TUE-P1-14
Mudra, Erika	B5-P-TUE-P1-19, A1-P-THU-P2-10	·	D1-0-TUE-AM2	Nedelkoski, Zlatko	D2-H-WED-AM2
Mueller, Cecilia	D4-0-WED-PM1	Nádaždy, Vojtech		•	
Mueller, Franz	B8-0-WED-PM1	Nador, Fabiana	F3-0-THU-PM1	Nedielko, Maksym	B6-P-TUE-P1-11
Mueller, Georg	D9-P-TUE-P1-5	Nadzri, Izzati	C1-O-MON-PM1	Nedilko, Serhii	B6-P-TUE-P1-11
mucker, ocory	D7-F-10E-F1-0	Nagaoka, Masaru	C8-P-THU-P2-9	Nedunchezhian, Srinivasan	E6-0-FRI-PM1
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Mueller, Georg	E4-P-THU-P2-3	Nagata, Masaya	B11-P-TUE-P1-20	Nedyalkov, Nikolay	C2-P-TUE-P1-5

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Nedyalkova P., Irina	E4-0-THU-AM2	NP dec NP dec	C11-P-THU-P2-6,	Novitskyi, Aleksander	B6-P-TUE-P1-15
Nefedova, Evgeny	B6-P-TUE-P1-27	Nikolaou, Nikolaos	C11-P-THU-P2-7, C11-O-THU-PM2	Novoselov, Ivan	B8-0-WED-PM2
Negre, Christian	D10-O-FRI-PM1	Nikolic, P.M	E3-P-TUE-P1-18	Ntemogiannis, D.	A2-P-THU-P2-4
Neirinck, Bram	B10-0-M0N-PM1,	Nikolov, Anastas	C2-P-TUE-P1-5	Ntomprougkidis, Vitalios	C1-O-FRI-AM2
······································	A6-O-FRI-PM1	Nikolova, Maria	C1-I-P-TUE-P1-17	Nunes, Eduardo Henrique Martins	A9-P-THU-P2-3
Neisius, Thomas	E1-P-TUE-P1-1, D2-O-TUE-AM2	Nilsson, Johan	D10-H-FRI-PM1	Nunes, Suzana	E1-0-TUE-PM1
Nelson, Anders	C1-O-THU-AM2	Nilsson, Karl-fredrik	D9-I/K-TUE-PM1	Nutter, John	B1-0-TUE-PM2
Nelson, Bradley	F2-P-THU-P2-9	Nilsson, Karl-Fredrik	D9-O-MON-AM2	Nyberg, Eric	B2-O-THU-PM2,
Nelson, Maria	F1-0-M0N-PM2	Nilsson, Karl-Fredrik	D9-P-TUE-P1-19	Hyberg, Life	B2-P-TUE-P1-11
Neophytides, Stylianos	E1-0-TUE-PM2	Misson, rait Heurik	B11-0-THU-AM2,	Nyborg , Lars	C4-0-FRI-PM1
Neophytou, Neophytos	E3-H-WED-AM2	Nimer, Salahudin	D4-O-MON-PM2		C4-O-FRI-PM1, C3-H-THU-PM2,
Nerantzaki, Maria	A3-P-TUE-P1-4	Ning, Xiao-Shan	B5-O-MON-PM1	Nyborg, Lars	C4-P-THU-P2-10,
Neri, Stefano	B1-0-THU-PM1	Ninkovic, Dragan	D8-P-TUE-P1-10		C4-O-WED-AM2,
•	A1-O-FRI-PM1,	Nishioka, E	D1-P-TUE-P1-19	N.L M	C4-O-THU-AM2
Neri, Wilfrid	A1-0-FRI-PM1	Nissari, Ali	B2-O-THU-PM2	Nyborg, M.	E3-H-WED-PM1
Nesterovic, Andrea	C11-P-THU-P2-14	Nistor, Leona Cristina	A5-0-TUE-PM1	Nyhus, Bård	D4-O-WED-AM2
	C4-P-THU-P2-8,	Nistor, Vasile Sergiu	A5-0-TUE-PM1	Nykypanchuk, Dmytro	D1-O-TUE-PM1
Neto, Rui	C4-P-THU-P2-9, C4-O-WED-PM1	Nitta, Kiyofumu	E1-I/K-TUE-AM2	0	
Novofoind lära C	D3-O-WED-PM1	Njuguna, James	E6-0-FRI-AM2	Ø , Prytz	D2-P-TUE-P1-29
Neuefeind, Jörg C.	D8-I/K-FRI-AM2	Nlebedim, I	H1-H-TUE-AM2	Oberwinkler, Bernd	B3-P-TUE-P1-4
Neugebauer, Joerg			H1-H-MON-PM1,	Obradovic, Nina	B11-P-TUE-P1-14
	D8-O-THU-PM2, B1-O-FRI-AM2,	Nlebedim, Ikenna	H2-O-TUE-AM2	O'Brien, Nathan	A1-0-THU-PM2
Neugebauer, Jörg	D8-O-THU-AM2,	Nlebedim, Ikenna C.	H1-H-TUE-AM2	O'Connor, Brian	D1-O-TUE-AM2
	D5-O-FRI-PM1, D5-O-THU-PM1	Nocivin, Anna	F4-P-TUE-P1-1	Oda, T.	E4-P-THU-P2-1
	D10-O-THU-PM2,	Noel, Cedric	B10-0-WED-AM2	Odnobokova, Marina	C10-P-THU-P2-4
Neuking, Klaus	D5-0-THU-PM1	Noël, Cédric	C1-O-FRI-AM2	Odor, Eva	B8-P-THU-P2-11
Neumeier, Steffen	B3-O-WED-AM2,	Noel, Daniele	F1-0-M0N-PM2	Odriozola, Ibon	B6-P-TUE-P1-19
Neumerel, Stellen	D4-P-TUE-P2-3	Noga, Piotr	C6-P-TUE-P1-13	Odutola, Tamara Nastasia Titilola Ais	A2-P-THU-P2-6
Neumeister, Markus	E6-0-THU-PM2	Nogales, Aurora	A7-H-TUE-PM2	Odysseos, Marios	E1-0-MON-PM1
Newton, Mark A.	D1-P-TUE-P1-23	NOGNING KAMTA, Philemon	B11-P-TUE-P1-18		B10-0-WED-AM2,
Ng , Serina	A7-I-P-TUE-P1-23	Noguchi, Hiroshi	B1-I/K-FRI-PM1	Oechsner, Matthias	B10-0-WED-PM1,
Ngai, Sieglind	B3-P-TUE-P1-8,	Nogués, Carme	F4-0-MON-PM2	O. b. C. C. Miller I	B10-0-TUE-PM1
	B10-0-TUE-PM2	Noh, Hee-Jun	A7-I-P-TUE-P1-18	Oehring, Michael	D1-O-THU-PM1
Ngai, Tungwai	B10-0-TUE-PM2		C4-0-THU-PM2	Oertel, Carl-Georg	B4-H-FRI-AM2
Ngan-Tillard, Dominique	D1-O-TUE-PM2	Noh, Sanghoon Noh, Sang-hoon	B1-P-THU-P2-17	Offeh Gyimah, Kwabena	A7-I-P-TUE-P1-15
Nguyen, Ngan.T.K.	A5-O-MON-AM2	-		Offerman, Erik	B1-0-FRI-PM1
Nguyen-Manh, D.	D8-O-THU-PM2	Nohava, Jirí	D4-O-TUE-PM1	Ogawa, Syusui	C1-O-TUE-PM2
	D8-O-FRI-AM2, B8-O-WED-PM2,	Nokhrin, Aleksey	B5-O-TUE-AM2, B5-P-TUE-P1-20,	Ogawa, Yukiko	B2-O-THU-AM2, B2-O-THU-AM2
Nguyen-Manh, Duc	D8-O-WED-AM2,	. ,	B6-P-TUE-P1-30	Oger, Geoffrey	A6-II-P-THU-P2-1
	B8-P-THU-P2-9,	Nolan, Michael	C1-O-MON-PM2	Oh, Hyun Seok	B8-O-THU-PM1
No. of the District	B7-P-THU-P2-12	Nolens, Grégory	A6-II-P-THU-P2-1	Oh, Jinkeun	B1-0-THU-AM2
Niarchos, Dimitrios	D2-O-WED-PM2	Nominé, Alexandre	C1-O-FRI-AM2	Oh, Sangtaek	
Nicholls, John	C1-II-P-THU-P2-11	Nonaka, Kenji	D1-O-THU-PM1	, ,	C9-0-THU-PM2
Nicholson, Kyle	B2-P-TUE-P1-4, E1-O-TUE-PM2	Nanni Cara	D1-P-TUE-P1-5,	Oh, Seh-Joong	C1-O-FRI-AM2
Nicol, Elizabeth	D3-I/K-WED-AM2	Nonni, Sara	D1-P-TUE-P1-7	Oh, Woojin	B6-P-TUE-P1-32
	E3-O-WED-AM2,	Noor, Nazia	A9-0-FRI-AM2	Ohashi, Naoki	A5-O-MON-AM2
Nicolaou, Christiana	E3-P-TUE-P1-3,	Norby, Truls	E3-O-TUE-AM2,	Ohmura, Takahito	B2-P-TUE-P1-5
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Nicolics, Johann	C9-O-THU-PM1	Nordlund, K.	E4-P-THU-P2-8	Ohnuma, Toshiharu	D10-0-WED-PM1
Nicolini, Valentina	D1-O-TUE-PM1	Nordlund, Kai	E4-O-TUE-PM2, D9-O-WED-PM1	Ohodnicki, Paul	E3-O-MON-PM2,
Nicotera, Isabela	E2-P-TUE-P1-8	No A. da	A6-O-FRI-AM2,	Ohto Naharu	H1-O-MON-PM1 D1-O-TUE-PM2
Nicotera, Isabella	E2-P-TUE-P1-1,	Norman, Andrew	B5-O-MON-AM2	Ohta, Noboru	
N: 15	E2-P-TUE-P1-20	Norman, Andy	A6-O-FRI-PM1	Ohtani, Hiroshi	H1-H-TUE-PM2
Nie, J.F.	B2-O-MON-PM1		C11-O-FRI-AM2,	Øien-Ødegaard, Sigurd	B7-0-FRI-AM2
Nie, Jian-Feng	B2-O-THU-AM2	Normand, Pascal	C11-P-THU-P2-6, C11-P-THU-P2-7,	Oikonomou, Christos	C4-O-THU-AM2
NIe, Jiang-Feng	B2-O-THU-AM2		C11-0-THU-PM2	Ojea-Jiménez, Isaac	A5-O-MON-PM1
Niederberger, Markus	A3-O-MON-PM2	Norris, David J	D2-P-TUE-P1-4	Ojeda López, Reyna	A1-0-FRI-PM1
Niehuesbernd, Jörn	B4-I/K-THU-AM2	Necessies Caumon	B6-P-TUE-P1-3,	Okada, M	D1-P-TUE-P1-19
Nielsch, Kornelius	B8-O-THU-PM1,	Nosewicz, Szymon	D10-I-P-TUE-P1-6	Okel, Raymond	D9-I/K-TUE-PM2
Nienderf Thomas	A7-I/K-TUE-PM1 B11-O-MON-PM2	Nourdine, A	A1-0-FRI-AM2,	Okolo, Brando	C4-O-THU-PM1
Niendorf, Thomas		News: Abread	C9-P-THU-P2-4	Okrosashvili, Mikheil	B3-P-TUE-P1-11
Nies, Eric	D10-0-THU-PM1	Nouri, Ahmed	E3-H-TUE-PM2	Oktar, Faik Nuzhet	B5-0-TUE-AM2
Nies, Erik	D10-I-P-TUE-P1-9	Novaes de Oliveira, Antonio Pedro	H2-P-TUE-P1-1	Okulov, Artem	F1-P-TUE-P1-16
Niinomi, Mitsuo	C1-II-P-THU-P2-20	Novajra, Giorgia	F1-P-TUE-P1-7, F1-O-TUE-PM1	Okulov, Ilya	F1-P-TUE-P1-16
Nikas, Dimitrios	B11-0-WED-PM1	Novakovic, Rada	C5-O-THU-PM2	Okuno, Hanako	C11-I/K-FRI-AM2
Nikiforov, Alexandr	C11-P-THU-P2-15	Novakovic, Rada	C5-O-THU-PM2	Olafsen, Kjell	A7-II-P-THU-P2-23
Nikiforov, Anton	A5-P-TUE-P1-6			Olariu, Marius Andrei	B6-P-TUE-P1-22
Nikitin, Aleksandr	E4-0-WED-AM2	Novelli, Marc	C10-0-WED-PM2	Olaru , Mihai	H2-P-TUE-P1-5
Nikitin, Alexander	E4-0-WED-AM2	Novikov, Dmitri	D1-O-FRI-PM1	Olaru, Alina	E1-P-TUE-P1-3
			C1-P-TUE-P1-16	o au a, mana	LITIOLFIJ
Niklasson, Anders	D10-O-FRI-PM1	Novikov, Pavel	F3-0-WED-PM2,	Olaru, Mihai	B8-P-THU-P2-4,

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Olbinado, Margie	D1-0-FRI-AM2	Ortolani, Luca	A1-0-FRI-PM1	Palacios, María Dolores	C3-H-THU-PM1
Olden, V.	D4-O-WED-AM2	Orts , María José	C1-O-TUE-PM1	Palacios, Pablo	A7-0-TUE-PM1
Olden, Vigdis	D4-O-WED-AM2, D4-O-WED-AM2	Orts, María José Orzech, Marcin	F4-0-M0N-AM2 E2-P-TUE-P1-27	Palacios, T.	E4-O-THU-AM2, E4-P-THU-P2-5
Olejnik, Ewa	C8-O-THU-PM2	Osen, Vidar	D4-0-WED-AM2	Palacios, Teresa	XXXI, F4-0-MON-
Oleshko, Vladimir	C10-O-FRI-AM2,	Osetsky, Yuri	D9-O-WED-PM1		PM1
Oleszak, Dariusz	C10-P-THU-P2-12 B8-P-THU-P2-6	Oshima, Nagayasu	B11-P-TUE-P1-12	Palasyuk, A. Palasyuk, Taras	H1-H-MON-PM1 D3-O-WED-AM2
OLIER, Patrick	E4-0-THU-AM2	Oskarsson, Anders	D2-O-MON-AM2	Palatinus, Lukas	D2-O-TUE-AM2
Oliva, Florian	E3-0-WED-PM1	Osorio, Ines	A5-0-MON-PM1	Paleari, Stefano	C11-P-THU-P2-17
Oliveira, Aline	C1-O-WED-AM2	Ostapiuk, Monika	B6-P-TUE-P1-16	Palermo, Vincenzo	A1-0-FRI-PM1
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Rackham, Jonathan	A7-I-P-TUE-P1-9	Raoux, Simone	E3-P-TUE-P1-17,	Requena, Guillermo	C6-O-MON-PM1
Radecka, Marta	C1-O-TUE-AM2	Dantia Vannia	A7-II-P-THU-P2-17 E3-0-III-AM2	Rettig, Ralf	D5-H-FRI-AM2
	D9-O-WED-PM1,	Raptis, Yannis		Reulet, Philippe	E6-0-FRI-PM1
Radiguet, Bertrand	D9-0-MON-PM1,	Rarhi, Nirmalya	B1-0-THU-PM2	Reuter, Antti	H3-O-MON-AM2
	B4-0-FRI-PM1	Råsander, Mikael	A7-O-MON-PM2, A7-I-P-TUE-P1-9	Reuter, Markus A.	H3-O-MON-AM2
Radjabian, Maryam	A9-0-FRI-AM2	Rashad, Ahmad	F1-0-M0N-AM2	Reuter, Markus A.	F5-0-FRI-AM2,
Radlwimmer, Harald	B11-0-M0N-PM1	Rassizadehghani, Jafar	B1-P-THU-P2-11	Reveron, Helen	F5-0-FRI-AM2
Radlwimmer, Harald	C7-O-TUE-PM2	Rath, Markus	D2-O-MON-PM1	Revo, Sergiy	B6-P-TUE-P1-11
Radnóczi, G. Z.	D2-P-TUE-P1-16	Rathmayr, Georg	B4-P-THU-P2-5	Reyes, DF.	D2-O-THU-AM2
Radovic, Miladin	B5-O-MON-AM2	Rátkai, László	B2-O-TUE-PM2	Reynaldo Meneses Costa, Hector	B1-P-THU-P2-9
Radović, Miljana	B6-P-TUE-P1-26	Ratke, Lorenz	C8-P-THU-P2-22	Reynaud, Cecile	E2-0-MON-PM2
Radowski, Piotr	B1-0-WED-PM1		E6-0-FRI-PM1	Reynaud, Pascal	F5-0-FRI-AM2
Radu, Adrian	E1-P-TUE-P1-3,	Ratochka, Il'ya		Reynosa, Ana Cecilia	A1-P-THU-P2-6
	A1-P-THU-P2-13	Ratschinski, Ingmar	D2-P-TUE-P1-20	Rey-Stolle, Ignacio	D2-O-TUE-PM1
Radu, Florin	D1-0-THU-PM2	Raygan, Shahram	B1-P-THU-P2-11	, .,	D1-0-WED-PM2
Raducanu, Doina	F4-P-TUE-P1-1	Raymond, Stephane	H1-O-TUE-PM1	Rezvani, Javad Seyed	
Radziszewska, Agnieszka	C1-I-P-TUE-P1-6	Rayson, Mark J.	D2-O-WED-AM2	Rheingans, Bastian	C6-H-MON-PM1
Rae, Catherine	B3-0-WED-AM2, B3-0-WED-PM1	Razavi-Khosroshahi, Hadi	C10-I/K-WED-AM2	Rhodes, Kaite	B3-O-WED-PM1
Rae, Catherine MF	D2-H-THU-AM2	Razorenov, Sergey	B4-0-THU-PM1	Rhodes, Katie	B11-0-M0N-AM2
	B3-0-MON-AM2	Razumovskii, Igor	B3-O-MON-PM2	Riazanova, Anastasia	D2-O-THU-PM1
Rae, Cathie	C10-H-THU-AM2	Razumovskiy, Vsevolod	B3-O-MON-PM2	Ribarik , Gabor	B3-O-MON-PM1
Rafaja, D.		Reale, Andrea	B7-0-FRI-PM1	Ribarik, Gabor	D1-O-THU-AM2
Rafaja, David	C10-H-THU-AM2	Rebaza, Arles G.	D8-P-TUE-P1-11	Ribas, Luís	C5-P-THU-P2-8
Rahamim, Or	B6-0-WED-AM2	Rebollar, Esther	A7-H-TUE-PM2	Ribeiro Peçanha, Juliana	B1-P-THU-P2-9
Rahier, Hubert	H2-O-MON-PM1	Redinger, Alex	E3-0-M0N-AM2	Ribeiro, Fabienne	B1-0-FRI-AM2
Rahmat, Meysam	A3-0-M0N-AM2	REDNYK, Andrii	E1-0-TUE-AM2	Ribot, Patrick	E3-P-TUE-P1-5,
Rahmoun, Khadija	D4-P-TUE-P2-7	Reger, Jan	E6-0-THU-PM2		A7-II-P-THU-P2-7
Rai, Alok Kumar	E2-P-TUE-P1-26	Regev, Michael	C6-I/K-MON-AM2	RIBOT, Patrick	C1-O-TUE-AM2
Raif, El Mostafa	F1-0-TUE-AM2	Regoutz, Anna	C5-P-THU-P2-16	Ricci, Enrica	D9-P-TUE-P1-10, C5-O-THU-PM2,
Rainer, Lindau	E4-0-WED-AM2	Reguero, Victor	E2-0-TUE-PM2	Medi, Emilea	C5-O-THU-PM2
Rainforth , W.Mark	B2-0-WED-PM1	Reguette, Jeremy	C4-O-THU-PM1	Richard, Marie-Ingrid	D1-O-WED-PM1
	B1-0-TUE-PM2,	Reheis, Nikolaus	C6-O-TUE-AM2	Richard, Nicolas	C11-P-THU-P2-10
Rainforth, Mark	B1-H-THU-PM2, B2-O-WED-AM2	Reif, Michael	C1-O-FRI-PM1	Richardson, I.M.	C4-O-THU-PM2
Raisin, Sophie	F1-0-MON-PM2	•	B6-P-TUE-P1-17	Richardson, lan	D1-O-THU-AM2
	C9-O-FRI-AM2	Reihanian, Mohsen			C1-O-TUE-AM2,
Raissi, pouria		Reinhardt, Carsten	C2-O-MON-PM2	Richert, Maria	B2-P-TUE-P1-19
Rajasekharan, Anand-Kumar	D2-0-THU-PM1	Reinhardt, Cartsen	C4-0-WED-PM1	Richert, Maria	C6-P-TUE-P1-13
Rajput, Parasmani	B11-0-M0N-PM2		C6-O-TUE-AM2, C4-P-THU-P2-8,	Richter, Gunther	A2-O-THU-PM1,
Raju, Selva	H1-O-TUE-PM1	Reis, Ana	C4-P-THU-P2-9,		C1-I-P-TUE-P1-9
Ram, Shanker	A7-0-TUE-PM2		C4-O-WED-PM1,	Richter, S.	B1-0-TUE-PM2
Ramadan, Rashad	B1-P-THU-P2-18	Dis Manual I	C9-P-THU-P2-11	Rico, Victor	C1-H-THU-PM1
Ramadan, Rehab	F3-P-THU-P2-3	Reis, Marcos A. L.	A1-O-FRI-AM2	Riecken, Björn	B6-O-TUE-PM2
Ramajayam, Mahendra	B2-O-MON-PM1	Reis, Maria Helena da Silva	A3-P-TUE-P1-7	Riedinger, Andreas	A5-H-WED-PM1
Ramanan, Nitya	B11-0-M0N-PM2	Reiser, Jens	B4-O-FRI-AM2	Riedl, Helmut	C1-H-MON-AM2,
Ramard, Constant	C6-0-TUE-PM1	Reitz, Rüdiger	B10-O-WED-AM2	Dieliehe Chafe -	C1-O-WED-PM2
Ramasamy, Parthiban	B9-H-THU-PM1	Rekondo , Alaitz	A3-O-TUE-AM2	Riekehr, Stefan	B11-P-TUE-P1-6
Ramasse, Quentin	E3-P-TUE-P1-20,	Reller, Armin	H3-O-MON-AM2, XXX	Rielli, Vitor	B2-O-THU-PM1
	D2-H-WED-AM2	Personatoria Pensilia	B11-0-M0N-AM2	Riera, Maria Rosa	H3-P-TUE-P1-1
Ramaswamy, Padmini	B7-0-THU-AM2	Rementeria, Rosalia		Ries, Berndt	C5-P-THU-P2-11
Rameau, Bruno	A3-0-TUE-AM2	Rementeria, Rosalia	B1-O-WED-PM1	Rieth, Michael	E4-O-THU-AM2, B4-O-FRI-AM2
Ramirez Gutierrez, Cristian Felipe	B5-P-TUE-P1-23	Rementeria, Rosalia	B1-P-THU-P2-3	Riffat, Saffa	C1-O-FRI-AM2
Ramirez Patiño, Juan Fernando	F1-0-TUE-PM2	Remes, Heikki	B10-P-TUE-P1-11	Rigo, Olivier	C4-P-THU-P2-4
Ramirez, Antonio	D4-0-WED-PM1	Rémy, Bonzom	D6-I/K-FRI-AM2	-	
Ramírez-Castellanos, Julio	A7-II-P-THU-P2-1,	Rémy, Pirès	B8-O-THU-AM2	Rigollet, Fabrice	B6-P-TUE-P1-24
	A7-II-P-THU-P2-4	Ren, Feng	D1-O-THU-PM2	Riise, H.N.	E3-H-WED-PM1
Ramírez-Jiménez, Rafael	A7-I-P-TUE-P1-7, A7-II-P-THU-P2-9	Ren, Shan	H2-O-MON-PM1	Rijkenberg, Arjan	B1-O-FRI-PM1, B1-H-THU-PM2
Ramírez-Jiménez, Rafael	A1-H-FRI-PM1	Renaud, Adèle	A5-0-M0N-AM2	Rijnders, Guus	A8-I/K-TUE-AM2
Ramm, Jürgen	C1-O-WED-AM2	Renaud, Gilles	C11-I/K-FRI-AM2	Riley, Jason	H2-P-TUE-P1-10
Ramos, Ana Sofia	C6-O-MON-PM1	Renault, Alexandra	D9-I/K-WED-PM1		F2-P-THU-P2-1
•		RENAULT, Pierre Olivier	D4-O-TUE-AM2	Rinaldi, Federica	
Ramos, Lizandra	F1-0-TUE-PM2		B11-O-TUE-PM1,	Rinaldi, Marianna	C4-O-THU-PM1
Ramos-Sánchez, Guadalupe	A1-0-FRI-PM1	Renk, Oliver	B4-O-FRI-PM1,	Ringgaard, Erling	E3-H-MON-PM2
RAMOUL, Meriem	B11-0-WED-PM2		B4-0-THU-PM1	Rink, Marta	D4-O-TUE-AM2
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Rios, Orlando	H1-H-MON-PM2, H1-H-MON-PM2	Rojacz, Harald	B10-O-TUE-PM2, B10-O-WED-PM2	Rousselot, Christophe	C1-O-MON-AM2
Rios, Orlando	H1-H-TUE-AM2		B11-0-M0N-PM1,	Routledge, M.N	F1-0-TUE-AM2
Riou, Benoit	A5-0-TUE-PM1	Rojas, Jose I.	C6-P-TUE-P1-4,	Rouxel, Baptiste	B2-P-TUE-P1-18
Riposan, Iulian	C8-P-THU-P2-1		B11-0-WED-AM2	Rovera, Eugenio	E2-0-TUE-AM2
Risbet, Marion	C6-O-MON-AM2	Rojas, Ramiro	D2-O-THU-PM1	Rovezzi, Mauro	D1-0-TUE-PM1
		Rojas-González, Fernando	A7-II-P-THU-P2-19	Rowe, Edward	C1-O-WED-PM2
Risse, Jeroen	C4-0-WED-PM2 C11-P-THU-P2-6,	Rojek, Jerzy	D10-I-P-TUE-P1-6	Roy, Pascale	D3-I/K-WED-AM2
Ritala, Mikko	C11-P-THU-P2-7	Roldán, Rubén	E3-P-TUE-P1-8	Royal, Aurélie	C11-O-THU-AM2
Ritscher, Anna	D3-O-WED-PM2	Rollinger, Markus	A2-H-THU-AM2	Royo, Marta	G1-P-TUE-P1-1
Riva, Sephira	B8-O-THU-PM2	Romaguera, Arnau	A8-O-MON-PM1	Rozanska, Anna	F5-O-FRI-AM2
Rival, Nicolas	A7-II-P-THU-P2-23	Romaner, Lorenz	D8-O-THU-PM1, B3-O-MON-PM2	Rozé, Fabien	C11-O-THU-PM1
Rivera-Diaz-del-Castillo, Pedro	D8-O-FRI-AM2	Romaniszyn, Dorota	F5-0-FRI-AM2	Rozes , Laurence	D4-0-TUE-AM2
Rivera-Díaz-del-Castillo, Pedro	D6-O-FRI-PM1	Romanjek, Krunoslav	E3-0-TUE-PM1	Ruane, Brian	A7-0-WED-PM2
Rivera-Díaz-del-Castillo, Pedro Eduardo Jose	B1-0-FRI-AM2	, .	A7-0-THU-PM2	Rubacha, Katarzyna	C1-II-P-THU-P2-12
Riziotis, Christos	A7-I-P-TUE-P1-17	Romanov, Alexei	D4-H-TUE-PM2,	Ruban, Andrei	D8-O-THU-PM1,
Rizos, Eleftherios	F3-0-THU-PM1	Romanov, Alexey	D2-O-WED-PM2		D8-P-TUE-P1-9
Rizzi, P.	A7-O-THU-PM1	Romanova, Varvara	D4-O-TUE-PM2	Rubanik, Vasily	C10-H-WED-PM1
·	A9-P-THU-P2-2,	Romberg, Jan	B4-H-FRI-AM2	Rubio-Lara, Juan Antonio	A7-O-THU-PM1
Rizzuto, Carmen	A9-0-FRI-PM1	Romčević, Maja	C3-P-THU-P2-10	Rubio-Zuazo, Juan	A1-H-FRI-PM1
Roa, Joan	B10-0-TUE-PM2	Romčević, Nebojša	C3-P-THU-P2-10	Rubtsov, Ivan	D1-O-THU-AM2
Roa, Joan Josep	C1-0-M0N-PM1	D	A7-O-WED-PM2,	Ruch, David	C1-O-TUE-PM2
Robach, Odile	D1-0-FRI-AM2	Römer, Florian M.	A2-P-THU-P2-11	Rückle, Dagmar	E3-O-WED-PM2
Roberto, James	H1-I/K-M0N-AM2	Romer, G. R. B. E.	C4-O-THU-PM2	Rudić, Svemir	B7-O-THU-AM2, B7-P-THU-P2-2
Robiglio, Matteo	C9-I/K-FRI-AM2	Romero, Pilar	F2-O-WED-PM1	Ruett, Uta	D1-P-TUE-P1-8
ROBIN, Vincent	C6-O-TUE-AM2	Rommel, Mathias	C11-0-THU-AM2	Ruettinger, Matthias	C6-O-TUE-AM2
Robson, Joseph	E4-P-THU-P2-11	Ronan, William	B6-O-TUE-PM1		F5-P-THU-P2-1
ROCCA, Emmanuel	C1-O-THU-PM2	Rong, Wei	B2-O-THU-AM2,	Ruffini, Andrea	D10-0-WED-PM2
Rocha, Helena	A6-O-THU-PM2		B2-O-THU-AM2	Ruffini, Antoine	
Rocha, Joao	F3-0-THU-AM2	Rosalie , Julian	C10-O-FRI-AM2	Ruffoni, Davide	D4-O-TUE-AM2
Rochus, Pierre	A6-II-P-THU-P2-1	Rosalie, Julian M.	B2-O-TUE-PM1	Ruffoni, Davide	F6-0-FRI-AM2
Rockett, Peter	D1-O-WED-PM1,	Roschger, Andreas	F6-O-THU-PM2, F6-O-THU-PM2	Rühe, Jürgen	E6-O-THU-PM1
nuckett, reter	D1-P-TUE-P1-7		F6-0-THU-PM2,	Rühe, Jürgen	E6-O-THU-PM1
Rodionova, Valeria	H1-P-TUE-P1-1	Roschger, Paul	F6-O-THU-PM2	Ruiperéz, Fernando	A3-0-TUE-AM2
Rodney, David	D8-H-WED-PM1	Rosell Llompart, Joan	C4-P-THU-P2-6	Ruiz de Luzuriaga, Alaitz	B6-P-TUE-P1-19
Rodrigue, Denis	A3-P-TUE-P1-7	Rosén, Johanna	A2-H-WED-PM2	Ruiz De Luzuriaga, Alaitz	A3-0-TUE-AM2
Rodrigues , Marcus	C1-I-P-TUE-P1-19	Roshchupkin, Dmitry	D1-O-FRI-PM1	Ruiz Molina, Daniel	F3-O-THU-AM2, F2-O-WED-AM2
Rodrigues, Fábio	B10-0-WED-PM1	Rösler, Joachim	B3-O-TUE-PM1	Ruiz Moreno, Ana	D9-P-TUE-P1-3
Rodrigues, Marcus	B6-P-TUE-P1-10, B11-P-TUE-P1-8	Roslyakova, Irina	B11-0-M0N-PM1	D. L. M. P D C. I	F3-O-WED-PM2,
Rodriques, Samuel	C10-0-FRI-AM2	Rosochowska, Malgorzata	C4-P-THU-P2-18	Ruiz-Molina, Daniel	F3-0-THU-PM1
Rodriguez Baracaldo, Rodolfo	B1-P-THU-P2-8	Rosolymou, Eleni	A7-O-THU-AM2	Rumyantsev, Aleksandr	C1-P-TUE-P1-16
Rounguez Baracatuo, Rouotto	B11-P-TUE-P1-5,	Ross, Manuel	D1-P-TUE-P1-28	Rusu, M. I.	E4-P-THU-P2-1,
Rodríguez Baracaldo, Rodolfo	B1-P-THU-P2-7	Rossberg, D.	A7-H-M0N-PM2	Duan Madalia Iaa	E4-O-WED-PM2
Rodriguez Garcia, Mario Enrique	B5-P-TUE-P1-23	Rossi, Barbara	B10-0-TUE-AM2	Rusu, Madalin Ion	A7-II-P-THU-P2-3
Rodriguez Ripoll, Manel	B10-0-TUE-PM2	Rossi, François	A5-O-MON-PM1	Rusu, Madaline	E4-0-TUE-PM2
Rodríguez, Álvaro	A7-H-TUE-PM2	Rossi, Giacomo	D1-P-TUE-P1-9	Rutter, Ernest	D1-O-WED-AM2, D1-P-TUE-P1-29
Podriguez Chloé	F3-O-THU-PM1,	Rößler, Christoph	C6-O-MON-AM2,	Ryan, Kevin	A5-H-WED-PM1
Rodriguez, Chloé	F3-P-THU-P2-2	Nobel, emisteph	C6-O-TUE-PM1	Ryan, Stephen	E6-0-FRI-AM2
Rodriguez, Jose	C1-H-TUE-AM2	Rößler, Florian	C2-O-MON-PM2, C2-P-TUE-P1-3	Ryazantseva, Mariya	C1-O-FRI-PM1
Rodríguez, Verónica	F3-0-THU-PM1	Rossnagel, Kai	D1-O-TUE-PM1	Rybalchenko, Olga	B4-H-THU-PM2
Rodriguez, Vincent	A7-O-TUE-PM2	Rostohar, Danijela	C2-P-TUE-P1-10	D. L. Maille	B7-0-THU-AM2,
Rodríguez-Diéguez, Antonio	B7-0-WED-PM1	Rosu, Lucian	B8-O-THU-PM2	Ryder, Matthew	B7-P-THU-P2-2
Rodriguez-Ibabe, Jose M ^a	B1-0-THU-PM1	Rotella, Helene	D2-O-TUE-AM2	Ryder, Matthew R	B7-0-THU-AM2
Rodríguez-Peña, M.	A7-O-WED-PM2	Roters, Franz	B2-0-TUE-PM2	Ryklina, Elena	B11-0-THU-AM2
Roeb, Martin	E1-0-M0N-PM1	Rouag, Nadjet	D10-I-P-TUE-P1-12	Ryu, Byung Tae	A6-I-P-TUE-P1-2,
Roeb, Martin	E3-P-TUE-P1-26	ROUAG, Nadjet	B11-0-WED-PM2		A6-I-P-TUE-P1-3
Roeffaers, Maarten	B7-0-FRI-AM2			Ryu, Seung-Hwa	D4-O-MON-PM1
Roesel, David	A7-H-THU-PM2	ROUALDES, Stéphanie	E1-0-TUE-PM2 E4-P-THU-P2-1,	Ryu, Young-jin	A9-O-FRI-PM1, B5-P-TUE-P1-9
Rogdakis, Konstantinos	C11-0-THU-PM2	Roubin, P.	E4-0-WED-PM2,	RZAIZI, Mourad	A3-O-MON-PM1
	B7-0-THU-AM2,		D6-O-FRI-AM2	S	
Rogge, Sven M.J.	B7-0-THU-AM2, B7-0-THU-PM1	Roubin, Pascale	E4-0-TUE-PM2	Š	
Rogozhkin , Sergey	E4-0-WED-AM2	Rouchon, Denis	C11-O-THU-PM1	S Koch,	C8-P-THU-P2-18
Rogozhkin, Sergey	E4-0-WED-AM2	ROUDET, Francine	B11-P-TUE-P1-18	S Malavi, Pallavi	D3-P-THU-P2-8
Roguska, Agata	D2-P-TUE-P1-26	Roue, Lionel	E2-0-TUE-PM2	·	B6-P-TUE-P1-10,
Roh, K. B.	E4-P-THU-P2-1	ROUESSAC, Vincent	E1-0-TUE-PM2	S. Machado, Alaí	B11-P-TUE-P1-8
		Roumpi, Maria	F1-0-M0N-AM2	Sá, Pedro	A8-O-TUE-AM2
	D4-O-MON-PM2	Roure, Sophie	C3-O-THU-PM2	Saadati, Mohammad	B1-0-THU-PM2
Rohaizat, Nurrasyidah	R10-0-WED-DM1	Koure, Soprile	00 0 1110 1112		
Rohwerder, Michael	B10-0-WED-PM1 F2-0-WFD-ΔM2	ROUSEL-DHERBEY, Francine	D4-0-M0N-PM1	Saadoune, Faouzi Walid	D4-P-TUE-P2-8
	B10-O-WED-PM1 F2-O-WED-AM2, F6-O-FRI-AM2				

Saarimäki, Jonas	B3-O-WED-PM2, D4-O-WED-AM2		A2-P-THU-P2-1, A2-P-THU-P2-2,	Sargent, Edward H.	D1-O-TUE-AM2
Sabato, Antonio Gianfranco	E1-P-TUE-P1-6	Samaras, Theodoros	A2-0-THU-PM1,	Sarigiannidou, Eirini	C1-O-MON-PM2
	B4-I/K-FRI-AM2,	Samaras, medudros	A2-P-THU-P2-3, A2-P-THU-P2-5,	Sarireh, Mohmd	H2-O-MON-PM1
Sabirov, Ilchat	B4-O-THU-AM2,		A2-P-THU-P2-6	Sarou-Kanian, Vincent	C1-O-MON-PM2
	B4-P-THU-P2-9	Samartzis, Alexandros	A8-P-TUE-P1-1	Sarris, Ioannis	D10-0-THU-PM1
Sachse, Alexander	F6-0-FRI-PM1	Samelor, Diane	C1-O-MON-PM2	Sarrou, Iosifina	D1-P-TUE-P1-20
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Shchyglo, Oleg	B8-O-WED-PM1	Cilharnagi Darathaa	D2-P-TUE-P1-11,	Skandalis, Athanasios	A3-P-TUE-P1-2,
Shearer, Greig C.	B7-O-FRI-AM2	Silbernagl, Dorothee	D2-O-THU-PM1	Skalidads, Adianasios	C1-II-P-THU-P2-1
Shechtman, Lev	D1-O-THU-AM2	Silva Gomes, Lincoln	A1-P-THU-P2-3	Skarlatos, Dimitrios	C11-O-THU-PM1, C11-O-THU-PM1
Sheftel, Elena	C1-II-P-THU-P2-10	Silva, E.P.	E1-0-TUE-PM2	Skiba, Stéphane	D3-O-WED-PM2
Sheikh, Saad	B3-O-THU-AM2	Silva, Erenilton	B2-O-TUE-PM1	Skiera, Erik	B11-0-TUE-PM2
Shen, Hui	C5-O-FRI-PM1	Silva, Filipe	F6-P-THU-P2-1	Skolek, Emilia	B1-O-WED-PM1
Shen, Xi	D2-H-TUE-PM2	Silva, Filipe	F1-O-TUE-PM2	Skolianos, Stefanos	B10-0-TUE-PM2,
Shen, Yang	C6-P-TUE-P1-6	Silva, Filipe S	F4-0-MON-PM1	Skullatius, Stelatius	C1-I-P-TUE-P1-20
Shen, Zhijian	C8-O-THU-AM2	Silva, José	E3-O-TUE-PM2	Skordaris, Georgios	C9-P-THU-P2-9
Shepherd, Joanna	F2-P-THU-P2-3	Silva, M Beatriz	C9-P-THU-P2-11	Skordaris, Georgios	C9-I/K-THU-Ⅲ2, C9-H-THU-AM2
Shepherd, Joey	F2-P-THU-P2-7	Silvayeh, Zahra	C6-O-TUE-PM1	Skordos, Alex	A3-0-M0N-AM2
Sheremetyev, Vadim	C10-H-FRI-PM1	Silvestre-Albero, Joaquin	B7-0-THU-PM2	Skorodumova, Natalia V.	D10-H-FRI-PM1
Sherkat, Frank	F1-P-TUE-P1-15	Sima, Adrian	E4-0-TUE-PM2	Skotadis, I	C11-P-THU-P2-16
Sherwin, Susanna	C2-O-MON-PM2	Šíma, Marek	B11-0-WED-PM1		C2-O-MON-PM1,
Shevtsov, Maxim	F2-O-WED-PM1	Simagina, Anna	F2-P-THU-P2-8	Skoulas, Evangelos	C2-O-MON-PM1
Shevyrtalov, Sergey	H1-P-TUE-P1-1	Simak, Sergei I.	D10-H-FRI-PM1	Skoulas, Evangelos	F6-0-FRI-PM1
Shi, Hao	E4-P-THU-P2-3,	Simard, Benoit	A3-0-M0N-AM2	Skoulikidou, Maria-Christina	C11-O-THU-PM1
	D9-P-TUE-P1-5	Simari, Cataldo	E2-P-TUE-P1-1, E2-P-TUE-P1-8,	Skoumalová, Zuzana	D9-O-MON-PM2
Shi, Wen	C9-O-THU-PM2	Silliali, Catatuo	E2-P-TUE-P1-20	Skrotzki, Werner	B4-H-FRI-AM2, B8
Shibata, Hiroyuki	C8-O-THU-AM2	Simeg Veternikova, Jana	E4-P-THU-P2-4	·	P-THU-P2-11
Shibayama, Atsushi	H2-O-MON-PM2		A2-H-WED-PM1,	Skryabina, Natalia	A7-0-THU-AM2
Shibayama, Yuki	B2-P-TUE-P1-5	Simeonidis, Konstantinos	A7-I-P-TUE-P1-6, A2-P-THU-P2-9,	Skszek, Tim	B2-O-MON-AM2
SHIBAYAMA, Yuki	B2-P-TUE-P1-6		D2-0-M0N-AM2	Skubisz, Piotr	B10-P-TUE-P1-13
Shimono, Masato	B9-O-THU-AM2	Simescu-Lazar, Florica	A1-P-THU-P2-4	Skumryev, Vassil	A8-O-MON-PM1
Shin, DaeHoon	C7-O-TUE-PM2	Simison, Silvia	B10-0-WED-AM2,	Skvortsova, Zoya	C5-P-THU-P2-13, C5-O-FRI-PM1
Shin, Gyeong Su	B3-O-WED-PM1	Sillisuli, Sitvia	B10-0-TUE-PM2	Slaoui, Abdelilah	E3-0-TUE-PM2
Shin, Gyeong Su	B8-P-THU-P2-8	Simões, Sonia	B6-P-TUE-P1-2	Slejko, Emanuele Alberto	A5-0-WED-PM1
SHIN, Jae Hong	C7-O-TUE-PM2	Simões, Sónia	C6-O-MON-PM1, A1-O-FRI-AM2	, ,	D9-O-TUE-PM1,
Shinozuka, Kei	C8-O-FRI-PM1, C8-P-THU-P2-9		E3-P-TUE-P1-7,	Slugen, Vladimir	E4-P-THU-P2-4
Shiozawa, Daiki	D1-O-THU-PM1	Simon, Christian	A7-II-P-THU-P2-23	Sluiter, Marcel	B3-O-MON-PM2
Shipilov , Alexander	B5-P-TUE-P1-18	Simon, George	C4-P-THU-P2-12	Sluiter, Marcel H.F.	D8-P-TUE-P1-4
Shirshnev, Pavel	A7-O-THU-PM2	Simon, Marina	A5-H-WED-AM2,	C NI	B11-O-TUE-AM2,
Shojaei, Kambiz	C10-P-THU-P2-9		F3-O-THU-AM2	Smaga, Marek	B11-0-M0N-PM1, B9-0-THU-PM2
Shojima, Arata	B1-P-THU-P2-13	Simon, Nicolas	A7-II-P-THU-P2-5		D2-P-TUE-P1-2,
Shorokhov, Alexander	B5-O-MON-PM2	Simon, Patrick	D9-O-WED-PM2	Smalc-Koziorowska, Julita	D2-O-WED-PM1,
Shorokhov, Evgeniy	B4-0-THU-PM1	Simondon, Esther	B1-0-THU-AM2		D2-P-TUE-P1-6, D2-H-TUE-PM1
Shtansky , Dmitry	A7-0-WED-PM2	Simonov, Yaroslav	C5-P-THU-P2-13	Smeacetto, Federico	E1-P-TUE-P1-6
,. ,	C1-O-THU-AM2,	Simon-Vazquez, Rosana	F3-0-THU-PM1 C1-0-TUE-PM2	Smid , Miroslav	B11-0-M0N-PM2
Shtansky, Dmitry	A8-O-TUE-AM2	Šímová, Veronika			B1-O-TUE-AM2,
Shtil, Alexander	F2-P-THU-P2-8	Sims, Zachary	H1-H-MON-PM2, H1-P-TUE-P1-2	Smid, Miroslav	D4-0-MON-PM2
Shu, Da	C6-P-TUE-P1-10	Simsek, Emrah	H1-O-TUE-PM1	Smilauerova, Jana	B2-O-THU-PM1
Shuai, Sansan	B2-O-WED-PM2	Simsek, Emrah	H1-H-MON-PM1	Šmilauerová, Jana	B4-0-THU-AM2
Shukla, Vineeta	A1-P-THU-P2-9	Simsek, Gorkem	B11-P-TUE-P1-7	Smilgies, Detlef	D1-P-TUE-P1-14
Shupik, Ivan	A5-P-TUE-P1-8	Sinara Borborema , Gabriel	F4-P-TUE-P1-8	Smirnov, Konstantin	B6-P-TUE-P1-27
Shvab, Ruslan	C4-O-FRI-PM1	Sinclair, Chadwick	B1-O-FRI-AM2	Smirnov, Vladimir	C1-P-TUE-P1-16,
Shvets, Petr	C1-O-WED-AM2	Sinclair, Derek	B5-O-MON-PM2	·	F2-0-WED-PM1
Shvyndina, Natalia	B6-O-TUE-PM2,	Singh, Alok	B2-O-TUE-PM1	Smirnov, Vladimir	F1-P-TUE-P1-8
•	A8-O-TUE-AM2		D10-I-P-TUE-P1-2,	Smirnov, Vladimir	F4-P-TUE-P1-2
Si, Shanshan	D4-0-M0N-AM2	Singh, Nirpendra	D10-I-P-TUE-P1-3	Smith, Barton	A7-0-WED-AM2
Siarov, Stefan	C4-O-THU-PM1, C4-O-THU-PM1	Singh, Satish Kumar	E6-O-FRI-PM1	Smith, Ryan	D1-P-TUE-P1-21
Siaugue, Jean-Michel	A5-O-MON-PM1	Singheiser, Lorenz	C1-H-TUE-PM1	Smolders, Simon	B7-0-FRI-AM2
Siciliano, Fulvio	C10-O-FRI-AM2	Sinha, Divya	B10-0-WED-PM1		B10-0-M0N-AM2, A1-0-FRI-AM2,
	C1-O-TUE-PM1,	Sinico, Marco	C1-O-FRI-AM2	Smyrak, Beata	B11-0-TUE-PM2,
Sidorenko, Daria	B6-O-TUE-PM2	Siozos, Panayiotis	C2-O-TUE-PM1		F5-O-FRI-AM2, C1 II-P-THU-P2-1
Sidorenko, Sergiy	D8-P-TUE-P1-9	Sīpola, Inta	B5-P-TUE-P1-4	Smyrnaios, Emmanouil	D3-0-WED-PM2
Siebentritt, Susanne	E3-0-M0N-AM2	Siracusano, Stefania	E1-H-TUE-PM1	Smyrnaios, Emmanouil	F1-0-TUE-AM2
C'arab la	F6-O-FRI-PM1,	Sironi, Angelo	B7-O-THU-PM2	Smyth, Neil	A5-0-MON-PM2
Siegel, Jan	A7-O-FRI-AM2, A7-O-FRI-AM2	Sirotin, Aleksandr	C10-O-WED-AM2	Snyders, Rony	A1-0-FRI-PM1
		Sisak-Jung, Dubravka	D1-O-FRI-PM1	onyacio, nony	AL OTHER

Snyders, Rony	A1-O-FRI-PM1	Soni, Rohit	D1-O-TUE-PM1	Srdic, Vladimir	C11-P-THU-P2-14
	B8-O-THU-PM2, B8-P-THU-P2-4,		H3-O-MON-PM1, C11-O-FRI-AM2,	Srdic, Vladimir	A5-P-TUE-P1-2
Soare, Vasile	B8-P-THU-P2-5,	Sonnemann, Guido	H3-O-MON-AM2,	Sridhar, Seetharaman	C8-O-FRI-PM1
	H2-P-TUE-P1-5, B6-P-TUE-P1-20		H3-O-MON-AM2	Sridharan, Kumar	E4-O-WED-PM1., H1-O-MON-PM2
	B8-P-THU-P2-4,	Sonnleitner, Markus	B1-O-THU-PM1	Sridharan, Niyanth	B10-0-WED-PM2
Soare, Victoria	H2-P-TUE-P1-5	Sorensen, Dan	D4-O-WED-PM1	SRIVASTAVA, SANJEEV KUMAR	A1-P-THU-P2-9
Soares, Delfim	C5-P-THU-P2-8	Soria, Héctor	F2-O-WED-PM1	SRIVASTAVA, SUNEEL KUMAR	A1-P-THU-P2-9
Soares, Eduardo	B10-0-WED-PM1	Sorogka, Niki	D3-P-THU-P2-4	Stahr, Johannes	C9-O-THU-PM1
Soares, Rui	C4-P-THU-P2-9	Sorokin, Lev	D2-O-WED-PM2	Staiti, Pietro	E2-0-TUE-PM2
Soares, Tiago	A6-O-THU-PM2	Sorsa, Olli	E1-I/K-TUE-PM1 C1-O-THU-PM1,	Stamatakis , Kostas	C1-O-THU-AM2
Sob, M.	A7-H-M0N-PM2	Sort, Jordi	F4-O-MON-PM2,	Stamatelatos, A.	A2-P-THU-P2-4
Sob, Mojmir	D8-O-FRI-AM2, D8-O-WED-AM2		C3-P-THU-P2-13	Stamatis, Haralambos	A3-O-MON-PM2
Šob, Mojmír	D8-O-THU-PM1	Sosa, Amadeo	B10-0-TUE-PM2	Stambouli, Valérie	A7-H-THU-PM1
Sobczak , Natalia	C5-I/K-THU-PM2	Sotillo, Belén	A7-0-FRI-AM2	Stan, Iulian	C8-P-THU-P2-1
Sobczak, Natalia	C6-P-TUE-P1-8	Sotiriadis, George	B6-O-TUE-PM2, B6-O-TUE-PM1	Stan, Stelian	C8-P-THU-P2-1
Sobel, Bartlomiej	D2-O-WED-PM2	Soulantica, Katerina	A5-H-TUE-AM2	Stana, Markus	D1-P-TUE-P1-28
Sobierajski, Ryszard	D1-P-TUE-P1-8	Soulé, Samantha	F3-O-THU-AM2	Stancu, Alexanru	A2-H-THU-PM1
Sobol, V.	E3-P-TUE-P1-16	Souliou, S.M.	D3-P-THU-P2-3	Stancu, Nicolae	B8-O-WED-PM2
Sobrinho, José Francisco Reis	C1-II-P-THU-P2-3	Souliou, Sofia Michaela	D1-O-THU-PM2	Stange, Marit	E3-O-MON-AM2,
Socha, Robert	A1-0-FRI-AM2	Souliou, Sofia-Michaela	D3-H-WED-AM2		E3-O-TUE-PM2
Socol, Gabriel	A7-II-P-THU-P2-3	Soumelidou, Maria	D2-P-TUE-P1-13	Stangier, Dominic	C1-O-MON-PM1
Söderberg, Hans	C4-0-THU-AM2	Sourice, Julien	E2-0-MON-PM2	Stanojev, Jovana	C11-P-THU-P2-14
	H1-O-TUE-PM2,	Sourmail, Thomas	B1-P-THU-P2-5	Stanojevic, Aleksandar	B3-P-TUE-P1-4
Söderlind, Per	H1-H-TUE-PM2	Sourmail, Thomas	B11-0-M0N-AM2	Starink, Marco	C10-O-WED-AM2
Sofinowski, Karl	B2-O-WED-PM2	Sournia-Saquet, Alix	A5-0-TUE-PM1	Stark, Andreas	D1-O-THU-PM1, C4-P-THU-P2-15
Sohn, Il	C6-O-TUE-AM2	·	B6-P-TUE-P1-10,	Stark, Tobias	C2-O-TUE-AM2
Soisson, Frédéric	D8-O-WED-PM1,	Sousa, Francisco	B11-P-TUE-P1-8	Starost, Kristof	E6-0-FRI-AM2
	D9-P-TUE-P1-9	Sousa, Pedro	B6-P-TUE-P1-13	Stary, Vladimir	F1-P-TUE-P1-6
Sojak, Stanislav	E4-P-THU-P2-4	Souza, Douglas Fernandes	A9-P-THU-P2-3	Stasiak, Tomasz	B8-P-THU-P2-6
Sokolovskiy, Vladimir	D8-P-TUE-P1-7, D8-O-FRI-AM2	Souza, Júlio	F6-P-THU-P2-1,	Stathokostopoulos, Dimitrios	E3-P-TUE-P1-13
Sokolowski-Tinten, Klaus	D1-P-TUE-P1-8		F1-0-TUE-PM2	Stathopoulos, Spyros	C11-O-THU-PM1
	C2-O-MON-PM2,	Souza, Júlio CM	F4-0-MON-PM1	Staudt, Thorsten	B1-0-TUE-PM2
Sola, Daniel	A7-II-P-THU-P2-16	Söyler, A. Umut	B5-O-MON-PM2	,	D4-O-WED-PM1,
Solan, Sébastien	E2-P-TUE-P1-17	Spadaro, Maria Chiara	D1-P-TUE-P1-17	Stauffer, Douglas	B10-0-TUE-AM2,
Soldatov, Alexander V.	B7-0-FRI-AM2	Spampinato, Nicoletta	A3-0-TUE-AM2		B11-P-TUE-P1-17, B5-P-TUE-P1-24
Soldera, Flavio	XXX, B10-0-TUE-PM2	Spanos, Konstantinos	B10-0-M0N-PM1	Stavrinadis, Alexandros	D1-P-TUE-P1-25
	B3-0-THU-AM2,	Spanos, Michael	C11-P-THU-P2-4	Stavrinidis, Antonis	C11-O-THU-PM2
Soleimani-Dorcheh, Ali	E3-P-TUE-P1-25	Spasova, Marina	A2-P-THU-P2-10	Stavrinou, Paul N.	A3-O-MON-PM2
Soler, Michel	B1-H-TUE-PM2	Spatschek, Robert	D5-O-FRI-PM1, B1-O-FRI-AM2	Stavropoulos, Panagiotis	B11-P-TUE-P1-11
Solioz, Marc	B10-0-WED-PM1,	Specht, Eliot D.	D8-O-THU-AM2		A3-O-TUE-AM2,
·	F5-P-THU-P2-2	Speck, Florian	C1-O-WED-PM1	Stavropoulos, Sotirios	A1-H-FRI-AM2
0 11 1 1	C2-O-MON-PM1, F6-O-FRI-PM1,	Speliotis, Thanassis	A3-O-TUE-AM2	Stavropoulos, SOTIRIS . G.	A3-P-TUE-P1-22
Solis, Javier	A7-0-FRI-AM2,	Speltini, Andrea	E1-P-TUE-P1-4	Steadman, Paul	A8-O-MON-PM1
	A7-0-FRI-AM2	Speranza, Giorgio	E1-P-TUE-P1-8	Stechmann, Guillaume	E3-O-MON-AM2
Solokhin, Alexandr	F1-P-TUE-P1-8	Spezia, Riccardo	E2-0-M0N-PM1	Steciuk, Gwladys	D2-O-TUE-AM2
Solórzano, Rubén	F3-O-WED-PM2	Speziale, Sergio	D3-O-WED-PM2	Steckmeyer, Antonin	B3-O-MON-PM2
Solovev, Mikhail	B3-0-WED-PM1	Cainglearmann Florian	B11-0-TUE-PM1,	Steeb, Hoger	D10-O-THU-PM2
Solsona, Pau	F4-O-MON-PM2, C3-P-THU-P2-13	Spieckermann, Florian	B9-0-THU-AM2	Steeb, Holger	D5-O-THU-PM1
Soltanmohammad, S.	D1-P-TUE-P1-27	Spierings, Adriaan B.	C4-O-FRI-AM2	Stefan, Mariana	A5-0-TUE-PM1
Somani, Mahesh	B1-H-WED-PM2	Spies, Jacob	F6-O-FRI-PM1	Stefanaki, E.C	E3-P-TUE-P1-18
Somekawa, Hidetoshi	B2-O-TUE-PM1	Spiewak, Piotr	D10-II-P-THU-P2-5	Stefanidou, Maria	B5-0-TUE-PM1
Somers, Joseph	D9-O-MON-AM2	Spigarelli, Stefano	C6-I/K-MON-AM2	Steffens, Paul	H1-O-TUE-PM1
Sommer, Britt	A7-II-P-THU-P2-23		C1-O-THU-PM1,	Steffens, Thomas	D1-P-TUE-P1-10
	C6-O-MON-PM2,	Spilarewicz-Stanek, Kaja	C1-O-TUE-PM2, C1-II-P-THU-P2-15,	Stegemann, Karl-Heinz	C11-H-THU-AM2
	C6-O-TUE-PM1,		C1-II-P-THU-P2-17	Stehlík, Karin	E1-P-TUE-P1-5
Sommitsch, Christof	C6-O-TUE-AM2, C7-O-TUE-PM2,	Spindler, Helmut	B1-O-THU-PM1	Steidl, Gabriele	B11-0-TUE-AM2
	C2-O-TUE-PM1,	Spirit, Zbynek	D9-P-TUE-P1-10,	Steil, Marlu César	A9-O-FRI-PM1
	E6-O-THU-PM1		D9-0-M0N-PM1	STEIN, Nicolas	C1-O-THU-PM2
Somsen, Christof	B3-0-M0N-AM2	Špirit, Zbyněk	B11-O-WED-PM1, B11-O-WED-PM1		D10-I/K-WED-AM2,
Son, Seong Ho	C1-II-P-THU-P2-4, C9-P-THU-P2-6	Spitaler, Jürgen	D8-O-THU-PM1	Steinbach, Ingo	D10-O-THU-AM2, D5-I/K-THU-PM1,
Sonderegger, Bernhard	D5-0-FRI-AM2	SPITZER, Denis	C3-O-THU-PM2	Stellibacii, iligo	B11-0-MON-PM1,
	D3-U-FKI-AMZ	·	D5-O-THU-PM1,		D5-O-FRI-PM1
	CO-U-MON DMO	Springer, Hauke	B10-0-WED-PM1	Steinbach, Ingo	B8-O-WED-PM1
Sones, Collin	C2-O-MON-PM2	opringer, maake	DIO O WED THI		
Sones, Collin Song, Jeong-Hwan	D2-O-TUE-PM2		F6-O-FRI-AM2,	Steinhauser, Monika	E6-0-THU-PM2
Sones, Collin Song, Jeong-Hwan Song, Sung-Hyuk	D2-O-TUE-PM2 C9-O-THU-PM2	Sprio, Simone	F6-O-FRI-AM2, F5-H-FRI-AM2,	Steinhauser, Monika Steinman, Alexander	E6-0-THU-PM2 A7-0-WED-PM2
Sones, Collin Song, Jeong-Hwan Song, Sung-Hyuk Song, Wenwen	D2-O-TUE-PM2 C9-O-THU-PM2 B1-O-TUE-AM2		F6-O-FRI-AM2,		
Sones, Collin Song, Jeong-Hwan Song, Sung-Hyuk	D2-O-TUE-PM2 C9-O-THU-PM2	Sprio, Simone	F6-0-FRI-AM2, F5-H-FRI-AM2, F5-P-THU-P2-1	Steinman, Alexander	A7-O-WED-PM2

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Stengel, Massimiliano	A8-H-MON-PM1, A8-O-MON-PM1		C10-H-THU-PM1, C10-H-THU-AM2,	Sutter, Florian	E3-O-WED-PM2, E3-O-WED-PM2
Stepanov, Nikita	C10-I/K-WED-PM1,		C5-I/K-FRI-PM1,	Suwas, Satyam	C10-H-WED-PM1
	C10-H-WED-PM2	Straumal, Boris	C5-P-THU-P2-5, C5-P-THU-P2-6,	Suzuki, Akira	E1-0-TUE-AM2
Stephan, Christiane	E3-P-TUE-P1-6		C5-P-THU-P2-7,	Suzuki, Takuya	B2-P-TUE-P1-5
Stephen, Samuel	A5-O-WED-AM2		C5-P-THU-P2-10, C5-P-THU-P2-11	SUZUKI, Takuya	B2-P-TUE-P1-6
Stephen, Samuel	A7-II-P-THU-P2-18	Straumal, Petr	C10-H-THU-PM1	Svelle, Stian	B7-0-FRI-AM2
Stergar, Erich	D9-O-TUE-AM2, E4-O-WED-PM1	Strauss, Mark	H2-O-TUE-AM2	Svensson, Ann Mari	E2-O-MON-PM2
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Tastemit, Munir A3-P-TUE-P1-1, A3-P-TUE-P1-1 Thiaudiere, Dominique B1-O-TUE-AM2 Titov, Kirill B7-O-WED-PM2 Titov, Ciril B7-P-TUE-P1-5 Thiaudiere, Dominique D4-O-TUE-AM2 Titoval, Barkha A7-O-TUE-PM2 Titoval, Barkha A7-O-TUE-PM2 Titoval, Ciril-PTUE-P1-5 Thiaudiere, Dominique D4-O-TUE-AM2 Titoval, Barkha A7-O-TUE-PM2 Titoval, Ciril-PTUE-P1-5 Thiaudiere, Dominique D4-O-TUE-AM2 Titoval, Barkha A7-O-TUE-PM2 Titoval, Ciril-PTUE-P1-5 Titoval, Ciril-PTUE-P1-7 Titoval, Ciril-PTUE-P1-7	idadii, Geiii		Theska, Felix		Tissot, Antoine	B7-P-THU-P23
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Tassis, Catherine B1-P-HU-P2-10 Thiebaud, Frederic E1-O-MON-PM2 Tkač, Martin E1-P-TUE-P1-5 Tassis, DH C11-O-THU-PM2 Thieme, Juergen D1-OTUE-PM1 Tkachek, Evgeniy B3-O-MON-PM2 Tassone, Chris D1-O-THU-PM2 Thieme, Juergen D1-O-TUE-PM1 Tkachek, Evgeniy B3-O-MON-PM2 Tassone, Chris D1-O-THU-PM2 Thieleucy, Chloé A5-O-TUE-AM2 Tobbens, Daniel M. C1-P-HU-PM1 Tatoud, Zol C1-O-WED-PM1 THILLY, Ludovic E4-O-THU-AM2 Tobbens, Daniel M. E3-P-TUE-P1-9 Taucroski, Piotr D2-O-WED-PM1 Thiney, Vivien C11-O-THU-PM2 Tobias, Gerard E3-O-WED-PM1 Tavakkoli, Mohammad E1-I/K-TUE-PM1 Thide, Olge A7-I-P-TUE-P1-12 Toboas, Januaz B8-O-WED-AM1 Taylor, Adam B1-I/K-TUE-AM2 Thogersen, Annett E3-O-MON-AM2 Tocci, Elena A9-P-THU-P2-2 Taylor, Kevin D1-O-WED-AM2 Thogersen, Annett E3-O-WED-PM1 Toda-carabalo, Isaac D6-O-FRI-PM1 Taylor, Kevin D1-O-WED-AM2 Thomas, And A7-O-THU-PM2 Todashchenko, Olga </td <td>Tasdemir, Munir</td> <td></td> <td>·</td> <td></td> <td></td> <td></td>	Tasdemir, Munir		·			
Tassis, DH	Tassin, Catherine		, ,			
Tassone, Chris			·			
Tati, Angelo D9-P.TUE-P1-6 Thijs, Lore A6-0-FRI-PMI Tobbens, Daniel M. C11-P-THU-P2-13 Tatododi, Zoi C1-0-WED-PMI THILLY, Ludovic E4-0-THU-AM2 Tobbens, Daniel M. E3-P-TUE-P1-9 Tauzowski, Piotr D2-0-WED-PMI Thiney, Vivien C11-0-THU-PM2 Tobias, Gerard F2-0-WED-PMI Taykor, Aldam E1-I/K-TUE-PMI Thoda, Olga A7-I-P-TUE-P1-12 Tobias, Gerard E3-H-TUE-PMI Taylor, Felicity E1-0-TUE-PMI Thoda, Olga A7-I-P-TUE-P1-12 Tocci, Elena A9-P-THU-P2-2, A9-OFR-PMI Taylor, Kevin D1-0-WED-AM2, D1-P-TUE-P1-29 Thogersen, Annett E3-0-WED-PMI Tocci, Elena A9-OFR-PMI Tazi, Meryem C5-P-THU-P2-15 Thoma, Dan C4-0-THU-PM2 Todd, Iain D6-Caraballo, Isaac D6-OFRI-AM2 Teadidi, Cristina E2-O-MON-AM2 Thomas, Andy A7-I/K-TUE-PMI Toddschenko, Olga B1-P-THU-P2-6 Tedenkov, Alexander B5-P-TUE-P1-15 Thomas, Marte C3-O-THU-PMI Toige, Elici D10-O-FRI-AM2 Tedenkov, Valentin C1-IP-THU-P2-10 Thomas, Matthew			, ,		rkacnev, Evgenry	
Taloudi, Zoi			·		Többens, Daniel M.	
Tautschnig, Markus D6-0-FRI-M2 Thiney, Vivien C11-0-THU-PM2 Tauzowski, Piotr D2-0-WED-PM1 Thirathipviwat, Pramote B8-0-WED-PM1, B8-0-THU-PM1 Tavakkoli, Mohammad E1-I/K-TUE-PM1 Thirathipviwat, Pramote B8-0-WED-PM1, B8-0-THU-PM1 Taylor, Tolga B5-0-MON-PM2 Thoda, Olga A7-I-P-TUE-P1-12 Todosque, Pablo C1-0-THU-AM2 Todosque, Pablo C1-0-THU-AM2 Todosque, Pablo C1-0-THU-AM2 Todosque, Pablo C1-0-THU-AM2 Todosque, Pablo C1-0-THU-AM2 Todosque, Pablo C1-0-THU-M			•		Többens, Daniel M.	E3-P-TUE-P1-9
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Tayakkoli, Mohammad E1-I/K-TUE-PM1	-				Tobola, Janusz	
Taylı, Tolga B5-0-MON-PM2 Thoda, Olga A7-I-P-TUE-P1-12 Iobosque, Pablo C1-I-HO-AMZ Taylor, Adam B1-I/K-TUE-AM2 Thogersen, Annett E3-0-MON-AM2, D2-P-TUE-P1-28 Tocci, Elena A9-D-FRI-PM1 Taylor, Felicity E1-0-TUE-PM1 Thegersen, Annett E3-0-WED-PM1 Toda-caraballo, Isaac D6-0-FRI-PM1 Taylor, Kevin D1-0-WED-AM2, D1-P-TUE-P1-29 Thomas, Annett A7-0-THU-PM1 Toda-caraballo, Isaac D8-0-FRI-AM2 Tazi, Meryem C5-P-THU-P2-15 Thoma, Dan C4-0-THU-PM2 Todd, Iain D8-0-FRI-AM2 Tchorz, Adam C1-0-TUE-AM2, C8-P-THU-P2-15 Thoma, Andy A7-I/K-TUE-PM1 Todoshchenko, Olga B1-P-THU-P2-6 Tebenkov, Alexander E5-P-TUE-P1-15 Thomas, Carsten B8-0-THU-AM2 Todos, Juraj B8-0-THU-PM2 Tegeler, Marvin C1-IP-THU-P2-10 Thomas, Marte C3-0-THU-PM1 Toiger, Elin D10-0-FRI-AM2 Tejerio, Carlos D10-H-FRI-AM2 Thomas, Olivier D1-0-WED-PM1 Tokar, Aleksei B4-H-TU-PM2 Tejerio, Carlos D10-H-FRI-AM2 Thomassin, Jean-Michel F6-0	•		Thirathipviwat, Pramote			
Taylor, Adam 81-I/K-TUE-AM2 Thogersen, Annett E3-0-MON-AM2, D2-PTUE-P1-28 Tocci, Elena A9-0-FRI-PM1 Taylor, Felicity E1-0-TUE-PM1 Thegersen, Annett E3-0-WED-PM1 Toda-caraballo, Isaac D6-0-FRI-PM1 Taylor, Kevin D1-0-WED-AM2, D1-P-TUE-P1-29 Thegersen, Annett A7-0-THU-PM1 Todd, Iain D8-0-FRI-AM2, C4-0-THU-AM2 Tazi, Meryem C5-P-THU-P2-15 Thoma, Dan C4-0-THU-PM2 Todd, Iain D8-0-FRI-AM2, C4-0-THU-AM2 Tchorz, Adam C1-0-TUE-AM2, C8-P-THU-P2-8 Thomas, Andy A7-I/K-TUE-PM1 Toddshchenko, Olga B1-P-THU-P2-6 Tebenkov, Alexander E2-0-MON-AM2 Thomas, Carsten B8-0-THU-AM2 Togashi, Yutaro C1-I-P-TUE-P1-3 Tedzhetov, Valentin C1-II-P-THU-P2-10 Thomas, Marc C3-0-THU-PM1 Toiger, Elin D10-0-FRI-AM2 Tegeler, Marvin C5-0-FRI-AM2, D5-0-FRI-PM1 Thomas, Matthew D1-0-WED-PM1 Tokar, Aleksei B4-H-THU-PM2 Teipel, Utrich F6-0-THU-PM2 Thomas, Yohann E2-P-TUE-P1-18 Tokii, Maki H1-H-TUE-P1-6 Teixeira, José C5-0-THU-PM2 Tho			Thoda, Olga	A7-I-P-TUE-P1-12	robosque, Pablo	
Taylor, Felicity			Thogersen, Annett	•	Tocci, Elena	
Taylor, Kevin D1-0-WED-AN2, D1-P-TUE-P1-29 Thagersen, Annett A7-0-THU-PM1 Toda-Caraballo, Isaac D8-0-FRI-AM2 D8-0-FRI-AM2 Todd, Iain D8-0-FRI-AM2 Todd			•		Toda-caraballo, Isaac	
Tazi, Meryem C5-P-THU-P2-15 Thoma, Dan C4-0-THU-PM2 Todd, lain D8-0-FRI-AM2, C4-0-THU-M2 Tchorz, Adam C1-0-TUE-AM2, C8-P-THU-P2-8 Thomas, Martin C1-0-THU-AM2 Todoshchenko, Olga B1-P-THU-P2-6 Tealdi, Cristina E2-0-MON-AM2 Thomas, Andy A7-I/K-TUE-PM1 Todt, Juraj B8-0-THU-PM2 Tebenkov, Alexander B5-P-TUE-P1-15 Thomas, Carsten B8-0-THU-AM2 Togashi, Yutaro C1-I-P-TUE-P1-3 Tedzhetov, Valentin C1-II-P-THU-P2-10 Thomas, Matthew D4-0-MON-PM1 Tokar, Aleksei B4-H-THU-PM2 Tegeler, Marvin C5-0-FRI-AM2, D5-0-FRI-PM1 Thomas, Olivier D1-0-WED-PM1 Tokar, Aleksei B4-H-THU-PM2 Teipel, Ulrich F6-0-THU-PM2 Thomas, Olivier D1-0-WED-PM1 Tokar, Klesei B4-H-THU-PM2 Teipel, Ulrich F6-0-THU-PM2 Thomas, Olivier D1-0-WED-PM1 Tokar, Klesei B1-H-HU-PM2 Teipel, Ulrich F6-0-THU-PM2 Thomas, Olivier D1-0-WED-PM1 Tokii, Maki H1-H-TUE-PM2 Teiseire, Jerémie A3-0-MON-PM1 Thomas, Olivier E2-P-TUE-P1-8			•		·	
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Tedzhetov , Valentin C1-II-P-THU-P2-10 Thomas, Matthew D4-0-M0N-PM1 Tokar, Aleksei B4-H-THU-PM2 Tegeler, Marvin C5-0-FRI-AM2, D5-0-FRI-PM1 Thomas, Olivier D1-0-WED-PM1 Tokarski, Tomasz C8-0-THU-PM2 Teijeiro, Cartos D10-H-FRI-AM2 Thomas, Yohann E2-P-TUE-P1-17 Tokii, Maki H1-H-TUE-PM2 Teipel, Ulrich F6-0-THU-PM2 Thomassin, Jean-Michel F6-0-FRI-AM2 Tolde, Zdenek F1-P-TUE-P1-6 Teisseire, Jérémie A3-0-M0N-PM1 E2-P-TUE-P1-8 Toldea, Felicia C3-P-THU-P2-7 Teixeira, José C5-P-THU-P2-8 Thompson, Gregory B. B3-P-TUE-P1-8, B10-0-TUE-PM2 Tolochko, Boris D1-0-THU-AM2 Tomaey, S. Tomaey, S. F3-P-TUF-P1-16 Tomaey, S. Tomaey, S.					-	
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Teixeira, José C5-P-THU-P2-8 Inompson, Gregory B. B10-0-TUE-PM2 Tomaev. S. F3-P-TUF-P1-16	Teisseire, Jérémie	A3-0-M0N-PM1				
Teixeira, Senhorinha C5-P-THU-P2-8 Thomson, C.L. F1-0-TUE-AM2	Teixeira, José	C5-P-THU-P2-8	Thompson, Gregory B.			
	Teixeira, Senhorinha	C5-P-THU-P2-8	Thomson, C.L.	F1-0-TUE-AM2	Tomaev, S.	E3-P-TUE-P1-16

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maselli, Massimiliano	C4-0-FRI-PM1	Trybula, Mar
ome, Carlos	D5-O-FRI-AM2,	Trzaska, Zofi
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ong, Naiqiang ongne, Amèvi	D2-P-10E-P1-25 D4-0-TUE-AM2	Tsagaraki, K
niolo, Gianluca	F2-P-THU-P2-4	
nnesson, Heidi	E3-H-TUE-PM2	Tsagarakis,
opcuoglu, Ozgur	C8-P-THU-P2-10,	Tsagkaraki,
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opping, Matthew opuz, Mehmet	E4-0-WED-PM2 C1-II-P-THU-P2-20	Tsai, Shao-F
orchio , Alessandro	F2-0-WED-AM2	Tsakiridis, P
orelli, Piero	D1-P-TUE-P1-24	Tsakiris, Vio
orkamani, H.	B1-P-THU-P2-11	Tankinanaula
oro Carrasco, Jahaziel	B5-P-TUE-P1-11	Tsakiropoul
rre, Elisa	F2-P-THU-P2-5	
rres Costa, Vicente	F3-O-THU-PM1, F3-P-THU-P2-2, F3-P-THU-P2-3	Tsakiropoulo
orres-Canas, Fernando	A1-0-FRI-PM1	Tsanaktsido
ORRES-CANAS, Fernando	A1-0-FRI-PM1	Tsang, Micha
orres-Costa, Vicente	C1-O-THU-PM1	Tsangarakis Tsanova-Tos
orres-Pardo, Almudena	A7-II-P-THU-P2-1	.50110 Vd 105
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osi, Pierluigi	A9-0-FRI-PM1, A3-P-TUE-P1-25	Tsardaka, Ei
oson, Valentina	B7-0-FRI-PM1	Tsarenko, Yu
OTH, Laszlo ouafri, Lasnouni	C10-0-WED-AM2 B10-P-TUE-P1-1	Tsavdaris, N
ouchard, Fabienne	D4-0-TUE-AM2	Tschurtsche
ougas, Bernard	E1-O-MON-PM1	Tsekenis, G.
oulfatzis, Anagnostis	C9-P-THU-P2-2	Tserepi, Ang
DURKI, Zoubeir	B11-0-M0N-PM2	Tserpes, Ko
ournier-Fillon, Aurélien	D4-O-TUE-PM1	Tsetsekou, A
ournoud, Zélie	B1-0-WED-PM1	
uzain, Sebastien DUZIN, Matthieu	A3-0-TUE-AM2 B11-P-TUE-P1-18	Tsetsekou, A
ownsend, Rebecca	E3-H-MON-PM2, C9-O-THU-PM1	Tsiapla, Aika
owrie, Mike	C4-O-WED-PM2	
rafela, Spela	H2-P-TUE-P1-3	Tsiaprantas
rajić, Jelena	C3-P-THU-P2-10	Tsigkourako Tsilimigkra,
RAN VAN, Giai	C6-O-TUE-AM2	
rapananti, Angela	D1-O-WED-PM2	Tsipas, Dimi
askine, Vladimir	C5-P-THU-P2-13, C5-O-FRI-PM1	Tsipas, Polix
ravlos, A	C11-0-FRI-PM1	Tsipas, Sofia
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	D2-P-TUE-P1-18	Tsipas, Soph
rehorel, Roxane réhorel, Roxane	D1-0-THU-AM2 B3-0-M0N-PM1	Tsirka, Kyria
renty, Laurent	D6-O-FRI-PM1	Tsirlin, Alexa
resallet, Damien	B1-P-THU-P2-10	Tsivlitidis, C
evisan, Francesco	C4-0-FRI-AM2	Tsongidis, N
iantafyllidis, Georgios	C1-I-P-TUE-P1-8	Tsormpatzo
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rikalitis, Pantelis	B7-0-WED-PM2	
rimukhe, Ajinkya	C1-O-FRI-PM1	Tsoukalas, [
rinkle, Dallas	B2-0-MON-PM2	Tsoukalas, [
ripathi, S.	D1-P-TUE-P1-16	Tsouknidas,
ristant, Pascal	A7-O-TUE-PM2 A2-H-WED-PM2,	Tsouknidas,
rohidou, Kalliopi	A2-H-WED-PM2, A2-H-WED-PM2	Tsouli, Sofia
rojan, Ivan	D3-O-WED-PM1	Tsoutsou, Di
rosch, Tanja	C8-0-THU-PM2	Tsuchiya, Ko
rudeau, Michel	E2-O-MON-PM2	
rujillo, Carl	D6-O-FRI-AM2,	Tsuchiyama,

Truong, Wisly	E2-P-TUE-P1-10
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Trybula, Marcela E.	D8-O-WED-PM2,
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Tsagkaraki, Katerina	C11-0-THU-PM1
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Tsai, Shao-Pu	D4-P-TUE-P2-6 B1-P-THU-P2-3
Tsakiridis, Panagiotis	B11-0-M0N-PM2
Tsakiris, Violeta	B8-O-WED-PM2
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Tsakiropoulos, Panagiotis (Panos)	D8-O-THU-PM2, B3-O-WED-AM2,
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Tsakiropoulos, Panos	B3-O-TUE-PM2, B3-O-TUE-PM1
Tsanaktsidou, Evgenia	F1-0-MON-AM2
Tsang, Michael	C11-O-FRI-AM2
Tsangarakis, Constantinos	B7-O-WED-PM2
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Tsantzalis, Stavros	B6-0-TUE-PM1, E2-0-TUE-PM2,
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Tsardaka, Eirini-Chrysanthi	B5-0-TUE-PM1
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Tuilier, Marie-Hélène	C1-O-MON-AM2
Tuktamyshev, Artur	C11-P-THU-P2-15
Tulyaganov, Dilshat	F1-P-TUE-P1-11
Tuma, Axel	H3-O-MON-AM2
Tunca, Bensu	D9-O-MON-PM2
Tunes, M.A	A7-0-FRI-AM2
Tunes, Matheus A.	E4-0-WED-PM1
Tünnermann, Andreas Turchenko, Ekaterina	D2-0-THU-AM2 B11-0-M0N-PM1
,	H1-O-TUE-PM2,
Turchi, Patrice	H1-H-TUE-PM2
Turchi, Patrice E.A.	H1-H-MON-PM2
Turichin, Gleb	C2-O-TUE-AM2, B3-O-WED-AM2
Turk, Christoph	C3-O-THU-PM1
Turlybekuly, Amanzhol	C10-O-FRI-AM2,
· ·	C10-P-THU-P2-12 H2-0-TUE-PM1
Turner , Stuart Turner, David	H3-0-10E-PM1
Turquat, Christian	C1-I-P-TUE-P1-7
Tzamalis, Georgios	E1-0-M0N-PM1
Tzatzadakis, Vasilis	
,	D10-0-WED-PM1
Tzini, Maria-Ioanna	D10-0-WED-PM1 D5-0-FRI-PM1
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Tzini, Maria-Ioanna Tzitzios, Vasileios	D5-0-FRI-PM1 A5-0-TUE-AM2, A7 II-P-THU-P2-18
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Tzini, Maria-Ioanna Tzitzios, Vasileios	D5-0-FRI-PM1 A5-0-TUE-AM2, A7 II-P-THU-P2-18 U A5-0-MON-AM2 E3-P-TUE-P1-5 A6-I-P-TUE-P1-4, A6-II-P-THU-P2-2,
Tzini, Maria-Ioanna Tzitzios, Vasileios Uchikoshi, Tetsuo Uchiyama, Hiroaki	D5-0-FRI-PM1 A5-0-TUE-AM2, A7 II-P-THU-P2-18 U A5-0-MON-AM2 E3-P-TUE-P1-5 A6-I-P-TUE-P1-4,
Tzini, Maria-Ioanna Tzitzios, Vasileios Uchikoshi, Tetsuo Uchiyama, Hiroaki Udovyk, Oleg	D5-0-FRI-PM1 A5-0-TUE-AM2, A7 II-P-THU-P2-18 U A5-0-MON-AM2 E3-P-TUE-P1-5 A6-I-P-TUE-P1-4, A6-II-P-THU-P2-2 B5-0-MON-PM1 B11-0-TUE-PM2,
Tzini, Maria-Ioanna Tzitzios, Vasileios Uchikoshi, Tetsuo Uchiyama, Hiroaki Udovyk, Oleg Ueda, Daiki	D5-0-FRI-PM1 A5-0-TUE-AM2, A7 II-P-THU-P2-18 U A5-0-MON-AM2 E3-P-TUE-P1-5 A6-II-P-TUE-P1-4, A6-II-P-THU-P2-2 B5-0-MON-PM1 B11-0-TUE-PM2, B11-P-TUE-P1 H2-0-MON-PM2,
Tzini, Maria-Ioanna Tzitzios, Vasileios Uchikoshi, Tetsuo Uchiyama, Hiroaki Udovyk, Oleg Ueda, Daiki Ueda, Shigeru Uhart, Arnaud Uhlenwinkel, Volker	D5-0-FRI-PM1 A5-0-TUE-AM2, A7 II-P-THU-P2-18 U A5-0-MON-AM2 E3-P-TUE-P1-5 A6-I-P-TUE-P1-4, A6-II-P-THU-P2-2 B5-0-MON-PM1 B11-0-TUE-PM2, B11-P-TUE-P1 H2-0-MON-PM2, H2-0-MON-PM2 F3-0-THU-AM2, C1-0-THU-PM2 E6-P-THU-P2-3
Tzini, Maria-Ioanna Tzitzios, Vasileios Uchikoshi, Tetsuo Uchiyama, Hiroaki Udovyk, Oleg Ueda, Daiki Ueda, Shigeru Uhart, Arnaud Uhlenwinkel, Volker Uhlirsch, Markus	D5-0-FRI-PM1 A5-0-TUE-AM2, A7 II-P-THU-P2-18 U A5-0-MON-AM2 E3-P-TUE-P1-5 A6-II-P-TUE-P1-4, A6-II-P-THU-P2-2 B5-0-MON-PM1 B11-0-TUE-PM2, B11-P-TUE-P1 H2-0-MON-PM2, H2-0-MON-PM2 F3-0-THU-AM2, C1-0-THU-PM2 E6-P-THU-P2-3 C4-0-FRI-PM1
Tzini, Maria-Ioanna Tzitzios, Vasileios Uchikoshi, Tetsuo Uchiyama, Hiroaki Udovyk, Oleg Ueda, Daiki Ueda, Shigeru Uhart, Arnaud Uhlenwinkel, Volker Uhlirsch, Markus Ulan kyzy, Sonun	D5-0-FRI-PM1 A5-0-TUE-AM2, A7 II-P-THU-P2-18 U A5-0-MON-AM2 E3-P-TUE-P1-5 A6-II-P-THU-P2-2 B5-0-MON-PM1 B11-0-TUE-PM2, B11-P-TUE-P1 H2-0-MON-PM2, H2-0-MON-PM2 F3-0-THU-AM2, C1-0-THU-PM2 E6-P-THU-P2-3 C4-0-FRI-PM1 B10-0-WED-AM2
Tzini, Maria-Ioanna Tzitzios, Vasileios Uchikoshi, Tetsuo Uchiyama, Hiroaki Udovyk, Oleg Ueda, Daiki Ueda, Shigeru Uhart, Arnaud Uhlenwinkel, Volker Uhlirsch, Markus	D5-0-FRI-PM1 A5-0-TUE-AM2, A7 II-P-THU-P2-18 U A5-0-MON-AM2 E3-P-TUE-P1-5 A6-II-P-TUE-P1-4, A6-II-P-TUE-P1-4 B11-0-TUE-PM2, B11-P-TUE-P1 H2-0-MON-PM1 H2-0-MON-PM2 H2-0-MON-PM2 C1-0-THU-PM2 E6-P-THU-P2-3 C4-0-FRI-PM1 B10-0-WED-AM2 D9-P-TUE-P1-12 A9-H-FRI-AM2, A9-0-THU-PM2,
Tzini, Maria-Ioanna Tzitzios, Vasileios Uchikoshi, Tetsuo Uchiyama, Hiroaki Udovyk, Oleg Ueda, Daiki Ueda, Shigeru Uhart, Arnaud Uhlenwinkel, Volker Uhlirsch, Markus Ulan kyzy, Sonun Ulbricht, Andreas	D5-0-FRI-PM1 A5-0-TUE-AM2, A7 II-P-THU-P2-18 U A5-0-MON-AM2 E3-P-TUE-P1-5 A6-II-P-TUE-P1-4, A6-II-P-THU-P2-2 B5-0-MON-PM1 B11-0-TUE-PM2, B11-P-TUE-P1 H2-0-MON-PM2, H2-0-MON-PM2 F3-0-THU-AM2, C1-0-THU-PM2 E6-P-THU-P2-3 C4-0-FRI-PM1 B10-0-WE0-AM2 D9-P-TUE-P1-12 A9-H-FRI-AM2,
Tzini, Maria-Ioanna Tzitzios, Vasileios Uchikoshi, Tetsuo Uchiyama, Hiroaki Udovyk, Oleg Ueda, Daiki Ueda, Shigeru Uhart, Arnaud Uhlenwinkel, Volker Uhlirsch, Markus Ulan kyzy, Sonun Ulbricht, Andreas	D5-0-FRI-PM1 A5-0-TUE-AM2, A7 II-P-THU-P2-18 U A5-0-MON-AM2 E3-P-TUE-P1-5 A6-I-P-TUE-P1-4, A6-II-P-THU-P2-2 B5-0-MON-PM1 B11-0-TUE-PM2, B11-P-TUE-P1 H2-0-MON-PM2, H2-0-MON-PM2 C1-0-THU-PM2, C1-0-THU-PM2 E6-P-THU-P2-3 C4-0-FRI-PM1 B10-0-WED-AM2 D9-P-TUE-P1-12 A9-1-FRI-AM2, A9-0-THU-PM2, A9-0-FRI-AM2 C8-P-THU-PM2, A9-0-FRI-AM2 C8-P-THU-PM2, A9-0-FRI-AM2 C8-P-THU-P2-12,
Tzini, Maria-Ioanna Tzitzios, Vasileios Uchikoshi, Tetsuo Uchiyama, Hiroaki Udovyk, Oleg Ueda, Daiki Ueda, Shigeru Uhart, Arnaud Uhlenwinkel, Volker Uhlirsch, Markus Ulan kyzy, Sonun Ulbricht, Andreas	D5-0-FRI-PM1 A5-0-TUE-AM2, A7 II-P-THU-P2-18 U A5-0-MON-AM2 E3-P-TUE-P1-5 A6-I-P-TUE-P1-4, A6-II-P-THU-P2-2 B5-0-MON-PM1 B11-0-TUE-PM2, B11-P-TUE-P1 H2-0-MON-PM2, H2-0-MON-PM2 C1-0-THU-AM2, C1-0-THU-PM2 E6-P-THU-P2-3 C4-0-FRI-PM1 B10-0-WED-AM2 D9-P-TUE-P1-12 A9-H-FRI-AM2, A9-0-THU-PM2, A9-0-THU-PM2, A9-0-THU-PM2, A9-0-THU-PM2, A9-0-THU-PM2, A9-0-THU-PM2, A9-0-THU-PM2, A9-0-THU-PM2, A9-0-THU-PM2, A9-0-THU-PM2,
Tzini, Maria-Ioanna Tzitzios, Vasileios Uchikoshi, Tetsuo Uchiyama, Hiroaki Udovyk, Oleg Ueda, Daiki Ueda, Shigeru Uhart, Arnaud Uhlenwinkel, Volker Uhlirsch, Markus Ulan kyzy, Sonun Ulbricht, Andreas Ulbricht, Mathias	D5-0-FRI-PM1 A5-0-TUE-AM2, A7 II-P-THU-P2-18 U A5-0-MON-AM2 E3-P-TUE-P1-5 A6-I-P-TUE-P1-4, A6-II-P-THU-P2-2, B5-0-MON-PM1 B11-0-TUE-PM2, B11-P-TUE-P1 H2-0-MON-PM2, H2-0-MON-PM2 C1-0-THU-PM2 E6-P-THU-P2-3 C4-0-FRI-PM1 B10-0-WED-AM2 D9-P-TUE-P1-12 A9-H-FRI-AM2, A9-0-THU-PM2, A9-0-THU-PM2, A9-0-THU-PM2, A9-0-THU-PM2, A9-0-THU-PM2, A9-0-THU-PM2, A9-0-THU-PM2, A9-0-THU-PM2, A9-0-THU-PD-12, C8-P-THU-P2-13, C8-P-THU-P2-15, C8-P-THU-P2-16, C8-0-THU-MM2, C8-P-THU-P2-16, C8-P-THU-P2-16, C8-P-THU-P2-16, C8-P-THU-P2-12, C8-P-THU-P2-16, C8-P-THU-P2-12, C8-P-THU-P2-16, C8-P-THU-P2-12, C8-P-THU-P2
Tzini, Maria-Ioanna Tzitzios, Vasileios Uchikoshi, Tetsuo Uchiyama, Hiroaki Udovyk, Oleg Ueda, Daiki Ueda, Shigeru Uhart, Arnaud Uhlenwinkel, Volker Uhlirsch, Markus Ulan kyzy, Sonun Ulbricht, Andreas Ulbricht, Mathias Ulbricht, Mathias	D5-0-FRI-PM1 A5-0-TUE-AM2, A7 II-P-THU-P2-18 U A5-0-MON-AM2 E3-P-TUE-P1-5 A6-II-P-THU-P1-5 B5-0-MON-PM1 B11-0-TUE-PM2, B11-P-TUE-P1 H2-0-MON-PM2, H2-0-MON-PM2 F3-0-THU-PM2, C1-0-THU-PM2 E6-P-THU-P2-3 C4-0-FRI-AM2 O9-P-TUE-P1-12 A9-I-FRI-AM2, A9-0-THU-PM2, A9-0-FRI-AM2 C8-P-THU-P2-13, C8-P-THU-P2-14, C8-P-THU-P2-15, C8-P-THU-P2-16, C8-P-THU-P2-16, C8-P-THU-P2-25 E3-P-TUE-P1-21,

Umersakova, Mayra	A3-P-TUE-P1-3		F4-P-TUE-P1-2,		B7-0-FRI-AM2,
Ummenhofer, Thomas	B10-0-MON-PM2		C10-H-THU-PM2,		D9-P-TUE-P1-7, B7-O-THU-AM2,
Ummenhofer, Thomas	C6-O-TUE-PM1	Valiev, Ruslan	F1-P-TUE-P1-8, C10-H-FRI-AM2,	Was Care based Wassing	B7-0-THU-AM2,
Ünal, Ahmet	D1-O-THU-PM2		B4-P-THU-P2-7,	Van Speybroeck, Veronique	B7-0-THU-AM2,
UNAL, Fatma	A7-I-P-TUE-P1-19		B4-P-THU-P2-9, B4-P-THU-P2-11		B7-O-THU-PM1, B7-I/K-THU-PM1,
Ünal, Fatma	C1-II-P-THU-P2-14	Valizadeh, Alireza	C6-O-MON-PM1		B7-P-THU-P2-7
Unciti-Broceta, Asier	F2-O-WED-PM1	·	C1-I-P-TUE-P1-13,	Van Speybroeck, Veronique	B7-H-FRI-AM2
Ungar, Tamas	E4-O-WED-AM2,	Valkov, Stefan	C2-P-TUE-P1-5,	Van Swygenhoven , Helena	B11-0-M0N-PM2
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Unger, Michael	C9-O-THU-PM1	Vallant, Rudolf	C6-O-TUE-PM1		B1-U-TUE-AM2, B11-I/K-TUE-AM2,
Upadhyay, Manas	D5-P-THU-P2-1	Vallat, Marie-France	E6-0-THU-PM1	Van Swygenhoven, Helena	D10-0-WED-PM1,
Upadhyay, Manas V	D5-O-FRI-AM2	Valle, Nathalie	B1-0-TUE-PM2	,,,	D4-O-MON-PM2, D5-O-FRI-AM2,
Upolovnikova, Alena	B1-0-THU-PM2, C7-0-TUE-PM2	Vallejo Sánchez, Daniel	A7-I-P-TUE-P1-8		D1-O-FRI-AM2,
Urbieta, A.	A7-O-WED-PM2	Vallêra, António	E3-0-TUE-PM2		D5-P-THU-P2-1
Urbieta, Ana	A7-II-P-THU-P2-12	Valles, Cristina	A7-0-WED-PM1	Van Tendeloo, Gustaaf	D2-I/K-TUE-AM2, D2-O-TUE-AM2
Ureña, Julia	F4-0-MON-AM2	Vallés, Juan Antonio	C2-O-MON-PM1	Van Thang, Nguyen	H1-H-TUE-PM1
Urgen, Mustafa	A7-I-P-TUE-P1-19	Valles, Pilar	B3-P-TUE-P1-2,	Van Til, Sander	D9-I/K-TUE-PM2
Ürgen, Mustafa	C1-II-P-THU-P2-14	vattes, i ital	B11-P-TUE-P1-2	van Tol, Alexander	F6-O-THU-PM2
Urones-Garrote, Esteban	B1-0-WED-PM1	Vallet-Regi, Maria	F1-O-TUE-PM1, F2-P-THU-P2-7	Van Tongel, Alexander	F4-0-M0N-AM2
Usmanova, Galina	C1-II-P-THU-P2-10		F1-O-TUE-AM2,	Van Vaerenbergh, Jonas	A6-O-FRI-PM1
Uson, Laura	A5-O-TUE-PM2	Vallet-Regí, Maria	F3-0-THU-AM2,	Van Velthoven, Niels	B7-0-WED-PM1
Usseglio, Julie	F5-H-FRI-AM2		F3-O-THU-AM2	Van Vrekhem, Stijn	F4-0-M0N-AM2
Ustinova, Irina	B5-P-TUE-P1-15		F3-O-WED-PM2, F3-O-THU-PM1,	van Well, Ad	B1-0-FRI-PM1
Utili, Marco	D9-P-TUE-P1-6,	Vallet-Regí, María	F2-O-WED-AM2,	Van Winkel, Sabrina	H2-O-TUE-PM1
otti, marco	E4-0-WED-PM2	3,4	F1-O-TUE-PM1, F3-O-WED-PM2,	Wasse 1 Mallan	E4-0-WED-PM1.,
Utlu, Zafer	C1-O-FRI-AM2		F1-P-TUE-P1-3	Vanazzi, Matteo	E4-0-WED-PM2
Utton , Claire	C3-O-THU-PM1		F3-O-WED-PM2,	Vančo, Lubomír	A7-O-WED-PM1
	D8-O-THU-PM2, B3-O-TUE-PM2,	Vallet-Regí, María	F2-O-WED-PM1, F2-P-THU-P2-6	Vandenbosch, Guy	H2-O-MON-PM1
Utton, Claire	B3-O-TUE-PM1,	Valloton, Jonas	B2-0-THU-PM2	Vandenbrande, Steven	B7-0-THU-AM2
	B3-O-TUE-PM2	Vamvakaki, M.	F1-I/K-MON-PM1	Vandeperre, Luc	B5-O-TUE-AM2
Uvarova, Irina	C3-O-FRI-PM1, A7- II-P-THU-P2-11	Vamvakeros, Antonios	D1-P-TUE-P1-30	Vander Valk, Rory	D1-O-WED-PM2
Uytdenhouwen, Inge	E4-P-THU-P2-2	Van Brutzel , Laurent	D9-O-TUE-PM2	Vandrovcova, Marta	F1-P-TUE-P1-6
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Uzunsoy, Deniz	C6-P-TUE-P1-9			Mandauthan I and	DI O IIIO AMZ,
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V		Van de Kerckhove, Kevin Van de Sande, Jorn	E2-0-TUE-PM1 H2-0-M0N-PM1	vanouymuys, Louis	B7-0-THU-PM1
V V. S. , Olsen	D2-P-TUE-P1-29	Van de Sande, Jorn	H2-O-MON-PM1	Vanek, Premysl	
V. S. , Olsen	D2-P-TUE-P1-29 E2-0-WED-AM2,	Van de Sande, Jorn Van de Voorde, Ben			B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2
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V. S. , Olsen	D2-P-TUE-P1-29 E2-0-WED-AM2, E2-P-TUE-P1-18,	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen	H2-0-MON-PM1 B7-P-THU-P2-2 C2-0-MON-AM2	Vanek, Premysl Vaniš, Jan	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-M0N-PM2,
V. S. , Olsen Vacandio, Florence	D2-P-TUE-P1-29 E2-0-WED-AM2, E2-P-TUE-P1-18, E2-0-TUE-PM1	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy	H2-O-MON-PM1 B7-P-THU-P2-2 C2-O-MON-AM2 H2-O-TUE-PM1	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-MON-PM2, C2-P-TUE-P1-4
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V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal	H2-O-MON-PM1 B7-P-THU-P2-2 C2-O-MON-AM2 H2-O-TUE-PM1 B1-O-WED-AM2 B7-H-FRI-AM2	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-MON-PM2, C2-P-TUE-P1-4
V.S., Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand	H2-0-MON-PM1 B7-P-THU-P2-2 C2-0-MON-AM2 H2-0-TUE-PM1 B1-0-WED-AM2 B7-H-FRI-AM2 B3-0-WED-AM2 D1-0-TUE-PM2, B1-0-FRI-PM1,	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-MON-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1
V.S., Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal	H2-0-MON-PM1 B7-P-THU-P2-2 C2-0-MON-AM2 H2-0-TUE-PM1 B1-0-WED-AM2 B7-H-FRI-AM2 B3-0-WED-AM2 D1-0-TUE-PM2, B1-0-FRI-PM1, B1-P-THU-P2-1,	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-MON-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11
V.S., Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand	H2-0-MON-PM1 B7-P-THU-P2-2 C2-0-MON-AM2 H2-0-TUE-PM1 B1-0-WED-AM2 B7-H-FRI-AM2 B3-0-WED-AM2 D1-0-TUE-PM2, B1-0-FRI-PM1,	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-MON-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2,
V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahidyeganeh, Ali	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P1-7 C1-O-MON-PM2,	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand	H2-O-MON-PM1 B7-P-THU-P2-2 C2-O-MON-AM2 H2-O-TUE-PM1 B1-O-WED-AM2 B7-H-FRI-AM2 B3-O-WED-AM2 D1-O-TUE-PM2, B1-O-FRI-PM1, B1-P-THU-P2-1, B1-O-TUE-PM2,	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-MON-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2, B10-0-WED-PM2
V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand van der Zwaag, Sybrand	H2-O-MON-PM1 B7-P-THU-P2-2 C2-O-MON-AM2 H2-O-TUE-PM1 B1-O-WED-AM2 B7-H-FRI-AM2 B3-O-WED-AM2 D1-O-TUE-PM2, B1-O-FRI-PM1, B1-P-THU-P2-1, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-M0N-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2, B10-0-WED-PM2 D1-P-TUE-P1-15 B3-0-M0N-PM2 D10-0-THU-PM2
V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahidyeganeh, Ali	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P2-6 B11-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1 C4-O-WED-AM2,	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand van der Zwaag, Sybrand	H2-0-MON-PM1 B7-P-THU-P2-2 C2-0-MON-AM2 H2-0-TUE-PM1 B1-0-WED-AM2 B7-H-FRI-AM2 B3-0-WED-AM2 D1-0-TUE-PM2, B1-0-FRI-PM1, B1-P-THU-P2-1, B1-0-TUE-PM2, B1-0-TUE-PM2	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas Varlamova, Sofia Varnik, Fathollah	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-MON-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-PM1 B10-0-TUE-PM2, B10-0-WED-PM1 D1-P-TUE-P1-15 B3-0-MON-PM2 D10-0-THU-PM1,
V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahldyeganeh, Ali Vahlas, Constantin	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand Van Dijk, Nicholas van Dijk, Niels	H2-0-MON-PM1 B7-P-THU-P2-2 C2-0-MON-AM2 H2-0-TUE-PM1 B1-0-WED-AM2 B7-H-FRI-AM2 B3-0-WED-AM2 D1-0-TUE-PM2, B1-0-FRI-PM1, B1-P-THU-P2-1, B1-0-TUE-PM2, B1-0-TUE-PM2 B1-0-TUE-PM1 D1-0-TUE-PM2 B1-0-FRI-PM1, H1-H-TUE-PM1, B3-0-MON-PM2	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas Varlamova, Sofia	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-M0N-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2, B10-0-WED-PM2 D1-P-TUE-P1-15 B3-0-M0N-PM2 D10-0-THU-PM2
V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahidyeganeh, Ali Vahlas, Constantin Vaideeswaran, Kaushik Vaidya, Amogh	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P2-6 B11-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1 C4-O-WED-AM2, F4-O-MON-AM2	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand Van Dijk, Nicholas	H2-0-MON-PM1 B7-P-THU-P2-2 C2-0-MON-AM2 H2-0-TUE-PM1 B1-0-WED-AM2 B7-H-FRI-AM2 B3-0-WED-AM2 D1-0-TUE-PM2, B1-0-FRI-PM1, B1-P-THU-P2-1, B1-0-TUE-PM2, B1-0-TUE-PM2 E1-H-TUE-PM1 D1-0-TUE-PM2, B1-0-FRI-PM1, H1-H-TUE-PM1,	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas Varlamova, Sofia Varnik, Fathollah	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-M0N-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2, B10-0-WED-PM2 D1-P-TUE-P1-15 B3-0-M0N-PM2 D10-0-THU-PM2, D5-0-THU-PM1, D10-0-THU-PM1,
V.S., Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahidyeganeh, Ali Vahlas, Constantin Vaideeswaran, Kaushik	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1 C4-O-WED-AM2, F4-O-MON-AM2 C1-O-FRI-PM1	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand Van Dijk, Nicholas van Dijk, Niels	H2-0-MON-PM1 B7-P-THU-P2-2 C2-0-MON-AM2 H2-0-TUE-PM1 B1-0-WED-AM2 B7-H-FRI-AM2 B3-0-WED-AM2 D1-0-TUE-PM2, B1-0-FRI-PM1, B1-P-THU-P2-1, B1-0-TUE-PM2, B1-0-TUE-PM2 B1-0-TUE-PM1 D1-0-TUE-PM2 B1-0-FRI-PM1, H1-H-TUE-PM1, B3-0-MON-PM2	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas Varlamova, Sofia Varnik, Fathollah	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-M0N-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2, B10-0-WED-PM2 D1-P-TUE-P1-15 B3-0-M0N-PM2 D10-0-THU-PM2, D5-0-THU-PM1, D10-0-THU-PM1, C5-0-FR1-AM2
V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahidyeganeh, Ali Vahlas, Constantin Vaideeswaran, Kaushik Vaidya, Amogh	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1 C4-O-WED-AM2, F4-O-MON-AM2 C1-O-FRI-PM1 A5-O-TUE-AM2, A7-	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand Van Dijk, Nicholas van Dijk, Niels Van Dyck, Dirk	H2-0-MON-PM1 B7-P-THU-P2-2 C2-0-MON-AM2 H2-0-TUE-PM1 B1-0-WED-AM2 B7-H-FRI-AM2 B3-0-WED-AM2 D1-0-TUE-PM2, B1-0-FRI-PM1, B1-P-THU-P2-1, B1-0-TUE-PM2, B1-0-TUE-PM2, B1-0-TUE-PM1 D1-0-TUE-PM2, B1-0-TUE-PM2 B1-0-TUE-PM2 B1-0-TUE-PM2 B1-0-TUE-PM2 B1-0-TUE-PM2 B1-0-FRI-PM1, H1-H-TUE-PM1, B3-0-MON-PM2 B11-0-MON-PM2	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas Varlamova, Sofia Varnik, Fathollah Varnik, Fathollah	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-M0N-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2, B10-0-WED-PM2 D1-P-TUE-P1-15 B3-0-M0N-PM2 D10-0-THU-PM1, D10-0-THU-PM1, D10-0-THU-PM1, D10-0-THU-AM2, C5-0-FRI-AM2 B3-0-TUE-PM1
V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahidyeganeh, Ali Vahlas, Constantin Vaideeswaran, Kaushik Vaidya, Amogh Vaithilingam , Balasubramanian	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P2-6 B11-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1 C4-O-WED-AM2, F4-O-MON-AM2 C1-O-FRI-PM1 A5-O-TUE-AM2, A7-I-P-TUE-P1-16 A5-O-WED-AM2, B2-O-FRI-AM2,	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand Van Dijk, Nicholas van Dijk, Niels Van Dyck, Dirk van Harten, Elleke	H2-O-MON-PM1 B7-P-THU-P2-2 C2-O-MON-AM2 H2-O-TUE-PM1 B1-O-WED-AM2 B7-H-FRI-AM2 B3-O-WED-AM2 D1-O-TUE-PM2, B1-O-FRI-PM1, B1-P-THU-P2-1, B1-O-TUE-PM2, B1-O-TUE-PM2 E1-H-TUE-PM1 D1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-FRI-PM1, H1-H-TUE-PM1, B3-O-MON-PM2 B11-O-MON-PM2 A5-O-TUE-PM2	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas Varlamova, Sofia Varnik, Fathollah Varnik, Fathollah Varona Caballero, Arcadio Varvaro, Gaspare	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-M0N-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2 D1-P-TUE-P1-15 B3-0-M0N-PM2 D10-0-THU-PM2 D5-0-THU-PM1, D10-0-THU-AM2, C5-0-FRI-AM2 B3-0-TUE-PM1 D2-0-WED-PM2
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V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahidyeganeh, Ali Vahlas, Constantin Vaideeswaran, Kaushik Vaidya, Amogh Vaithilingam, Balasubramanian Valant, Matjaz Valcuende Payá, Manuel	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1 C4-O-WED-AM2, F4-O-MON-AM2 C1-O-FRI-PM1 A5-O-TUE-AM2, A7-I-P-TUE-P1-16 A5-O-WED-AM2 B2-O-FRI-AM2, C11-P-THU-P2-10 B6-P-TUE-P1-7	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand Van Dijk, Nicholas Van Dijk, Niels Van Dyck, Dirk van Harten, Elleke van Hoa, Suong van Hooreweder, Brecht Van Humbeeck, Jan	H2-O-MON-PM1 B7-P-THU-P2-2 C2-O-MON-AM2 H2-O-TUE-PM1 B1-O-WED-AM2 B7-H-FRI-AM2 B3-O-WED-AM2 D1-O-TUE-PM2, B1-O-FRI-PM1, B1-P-THU-P2-1, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2 B1-O-TUE-PM1 D1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM1, H1-H-TUE-PM1, B3-O-MON-PM2 B11-O-MON-PM2 A5-O-WED-PM1 E6-I/K-THU-AM2 B10-O-MON-PM1	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas Varlamova, Sofia Varnik, Fathollah Varnik, Fathollah Varona Caballero, Arcadio Varvaro, Gaspare Varzi, Alberto Vasco, Marina	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-M0N-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2, B10-0-WED-PM2 D1-P-TUE-P1-15 B3-0-M0N-PM2 D10-0-THU-PM1, D10-0-THU-PM1, D10-0-THU-PM2 E3-0-TUE-PM1 D2-0-WED-PM2 E3-0-TUE-PM1
V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahidyeganeh, Ali Vahlas, Constantin Vaideeswaran, Kaushik Vaidya, Amogh Vaithilingam , Balasubramanian Valant, Matjaz Valcuende Payá, Manuel Valdevit, Lorenzo	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P2-6 B11-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1 C4-O-WED-AM2, F4-O-MON-AM2 C1-O-FRI-PM1 A5-O-TUE-AM2, A7-I-P-TUE-P1-16 A5-O-WED-AM2 B2-O-FRI-AM2, C11-P-THU-P2-10 B6-P-TUE-P1-7 E6-O-FRI-AM2	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand Van Dijk, Nicholas Van Dijk, Niels Van Dyck, Dirk van Harten, Elleke van Harten, Elleke van Hooreweder, Brecht	H2-O-MON-PM1 B7-P-THU-P2-2 C2-O-MON-AM2 H2-O-TUE-PM1 B1-O-WED-AM2 B7-H-FRI-AM2 B3-O-WED-AM2 D1-O-TUE-PM2, B1-O-FRI-PM1, B1-P-THU-P2-1, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2 B1-O-TUE-PM1, D1-O-TUE-PM1, H1-H-TUE-PM1, B3-O-MON-PM2 A5-O-TUE-PM2 A5-O-WED-PM1 E6-I/K-THU-AM2 B10-O-MON-PM1	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas Varlamova, Sofia Varnik, Fathollah Varona Caballero, Arcadio Varvaro, Gaspare Varzi, Alberto Vasco, Marina Vasconcelos, Wander Luiz Vasilakaki, Marianna	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-M0N-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2, B10-0-WED-PM2 D1-P-TUE-P1-15 B3-0-M0N-PM2 D10-0-THU-PM1, D10-0-THU-PM1, D10-0-THU-PM2 E3-0-TUE-PM1 D2-0-WED-PM2 E2-P-TUE-PH1 A9-P-TUE-PM1 A9-P-THU-P2-3 A2-H-WED-PM2 B8-P-THU-P2-4,
V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristina Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahidyeganeh, Ali Vahlas, Constantin Vaideeswaran, Kaushik Vaidya, Amogh Vaithilingam, Balasubramanian Vaithilingam, Balasubramanian Valant, Matjaz Valcuende Payá, Manuel Valdevit, Lorenzo Valencia Lopez, Luis	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1 C4-O-WED-AM2, F4-O-MON-AM2 C1-O-FRI-PM1 A5-O-TUE-AM2, A7-I-P-TUE-P1-16 A5-O-WED-AM2 B2-O-FRI-AM2 C11-P-THU-P2-10 B6-P-TUE-P1-7 E6-O-FRI-AM2 A9-P-THU-P2-4	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand Van Dijk, Nicholas Van Dijk, Niels Van Dyck, Dirk van Harten, Elleke van Hoa, Suong van Hooreweder, Brecht Van Humbeeck, Jan	H2-O-MON-PM1 B7-P-THU-P2-2 C2-O-MON-AM2 H2-O-TUE-PM1 B1-O-WED-AM2 B7-H-FRI-AM2 B3-O-WED-AM2 D1-O-TUE-PM2, B1-O-FRI-PM1, B1-P-THU-P2-1, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2 B1-O-TUE-PM1 D1-O-TUE-PM2 B1-O-FRI-PM1, H1-H-TUE-PM1, B3-O-MON-PM2 B11-O-MON-PM2 A5-O-TUE-PM2 A5-O-WED-PM1 E6-I/K-THU-AM2 B10-O-MON-PM2 B11-O-MON-PM1 B11-O-MON-PM2 B11-O-MON-PM2 B11-O-MON-PM2 B11-O-MON-PM2 B1-P-THU-P2-10 F1-I/K-MON-AM2	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas Varlamova, Sofia Varnik, Fathollah Varnik, Fathollah Varona Caballero, Arcadio Varvaro, Gaspare Varzi, Alberto Vasco, Marina Vasconcelos, Wander Luiz Vasilakaki, Marianna Vasile, Eugeniu	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-M0N-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2, B10-0-WED-PM2 D1-P-TUE-P1-15 B3-0-M0N-PM2 D10-0-THU-PM1, D10-0-THU-PM1, D10-0-THU-PM2 E2-P-TUE-P1-24 B10-0-TUE-PM1 A9-P-THU-PP3 A2-H-WED-PM2 B8-P-THU-P2-4, B8-0-WED-PM2
V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahidyeganeh, Ali Vahlas, Constantin Vaideeswaran, Kaushik Vaidya, Amogh Vaithilingam, Balasubramanian Valant, Matjaz Valcuende Payá, Manuel Valdevit, Lorenzo Valencia Molina, Laura Daniela	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1 C4-O-WED-AM2, F4-O-MON-AM2 C1-O-FRI-PM1 A5-O-TUE-AM2, A7-I-P-TUE-P1-16 A5-O-WED-AM2 B2-O-FRI-AM2, C11-P-THU-P2-10 B6-P-TUE-P1-7 E6-O-FRI-AM2 A9-P-THU-P2-4 B5-P-TUE-P1-23	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand Van Dijk, Nicholas Van Dijk, Niels Van Dyck, Dirk van Harten, Elleke van Harten, Elleke van Hooreweder, Brecht Van Humbeeck, Jan Van Landeghem, Hugo	H2-O-MON-PM1 B7-P-THU-P2-2 C2-O-MON-AM2 H2-O-TUE-PM1 B1-O-WED-AM2 B7-H-FRI-AM2 B3-O-WED-AM2 D1-O-TUE-PM2, B1-O-FRI-PM1, B1-P-THU-P2-1, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM1, D1-O-TUE-PM1, H1-H-TUE-PM1, B3-O-MON-PM2 A5-O-TUE-PM2 A5-O-WED-PM1 E6-I/K-THU-AM2 B10-O-MON-PM1 B11-O-MON-PM2 B11-O-MON-PM2 B11-O-MON-PM1 B11-O-MON-PM2 B1-P-THU-P2-10 F1-I/K-MON-AM2 C2-P-TUE-P1-11,	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas Varlamova, Sofia Varnik, Fathollah Varnik, Fathollah Varona Caballero, Arcadio Varvaro, Gaspare Varzi, Alberto Vasco, Marina Vasconcelos, Wander Luiz Vasilakaki, Marianna Vasile, Eugeniu Vasile, Eugeniu	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-M0N-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2, B10-0-WED-PM2 D1-P-TUE-P1-15 B3-0-M0N-PM2 D10-0-THU-PM1, D10-0-THU-PM1, D10-0-THU-PM2 B3-0-TUE-PM1 D2-0-WED-PM2 E2-P-TUE-P1-24 B10-0-TUE-PM1 A9-P-THU-P2-3 A2-H-WED-PM2 B8-P-THU-P2-4, B8-0-WED-PM2 D2-0-WED-PM1
V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahidyeganeh, Ali Vahlas, Constantin Vaideeswaran, Kaushik Vaidya, Amogh Vaithilingam, Balasubramanian Valant, Matjaz Valcuende Payá, Manuel Valdevit, Lorenzo Valencia Molina, Laura Daniela Valencia, Sergio	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1 C4-O-WED-AM2, F4-O-MON-AM2 C1-O-FRI-PM1 A5-O-TUE-AM2, A7-I-P-TUE-P1-16 A5-O-WED-AM2, B2-O-FRI-AM2, C11-P-THU-P2-10 B6-P-TUE-P1-7 E6-O-FRI-AM2 A9-P-THU-P2-4 B5-P-TUE-P1-23 D1-O-THU-PM2	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand Van Dijk, Nicholas Van Dijk, Niels Van Dyck, Dirk van Harten, Elleke van Harten, Elleke van Hooreweder, Brecht Van Humbeeck, Jan Van Landeghem, Hugo van Nostrum, Rene van Oosten, Dries	H2-O-MON-PM1 B7-P-THU-P2-2 C2-O-MON-AM2 H2-O-TUE-PM1 B1-O-WED-AM2 B7-H-FRI-AM2 B3-O-WED-AM2 D1-O-TUE-PM2, B1-O-FRI-PM1, B1-P-THU-P2-1, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM1, H1-H-TUE-PM1, B3-O-MON-PM2 A5-O-TUE-PM2 A5-O-WED-PM1 E6-I/K-THU-AM2 B11-O-MON-PM1 B11-O-MON-PM2 B11-O-MON-PM2 B11-O-MON-PM2 B11-O-MON-PM2 B11-O-MON-PM2 B1-P-THU-P2-10 F1-I/K-MON-AM2 C2-P-TUE-P1-11, C2-P-TUE-P1-12	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas Varlamova, Sofia Varnik, Fathollah Varnik, Fathollah Varona Caballero, Arcadio Varvaro, Gaspare Varzi, Alberto Vasco, Marina Vasconcelos, Wander Luiz Vasilakaki, Marianna Vasile, Eugeniu Vasileiadis, Isaak Vasileiadis, Isaak	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-M0N-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2, B10-0-WED-PM2 D1-P-TUE-P1-15 B3-0-M0N-PM2 D10-0-THU-PM1, D10-0-THU-PM1, D10-0-THU-PM2 E2-P-TUE-P1-24 B10-0-TUE-PM1 A9-P-THU-P2-3 A2-H-WED-PM2 B8-D-WED-PM2 B8-D-WED-PM2 D2-0-WED-PM1 D2-0-WED-PM1
V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahidyeganeh, Ali Vahlas, Constantin Vaideeswaran, Kaushik Vaidya, Amogh Vaithilingam, Balasubramanian Valant, Matjaz Valcuende Payá, Manuel Valdevit, Lorenzo Valencia Molina, Laura Daniela	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P2-6 B11-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1 C4-O-WED-AM2, F4-O-MON-AM2 C1-O-FRI-PM1 A5-O-TUE-P1-16 A5-O-WED-AM2, C1-P-THU-P2-10 B6-P-TUE-P1-7 E6-O-FRI-AM2 A9-P-THU-P2-4 B5-P-TUE-P1-23 D1-O-THU-PM2 C5-O-FRI-AM2	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand Van Dijk, Nicholas van Dijk, Nicholas Van Dyck, Dirk van Harten, Elleke van Harten, Elleke van Hooreweder, Brecht Van Humbeeck, Jan Van Landeghem, Hugo van Nostrum, Rene	H2-O-MON-PM1 B7-P-THU-P2-2 C2-O-MON-AM2 H2-O-TUE-PM1 B1-O-WED-AM2 B7-H-FRI-AM2 B3-O-WED-AM2 D1-O-TUE-PM2, B1-O-FRI-PM1, B1-P-THU-P2-1, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM1, H1-H-TUE-PM1, B3-O-MON-PM2 A5-O-TUE-PM2 A5-O-WED-PM1 E6-I/K-THU-AM2 B11-O-MON-PM1 B11-O-MON-PM2 B11-O-MON-PM2 B1-P-THU-P2-10 F1-I/K-MON-AM2 C2-P-TUE-P1-11, C2-P-TUE-P1-12 B11-O-MON-PM2	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas Varlamova, Sofia Varnik, Fathollah Varnik, Fathollah Varona Caballero, Arcadio Varvaro, Gaspare Varzi, Alberto Vasco, Marina Vasconcelos, Wander Luiz Vasilakaki, Marianna Vasile, Eugeniu Vasileiadis, Isaak Vasileiadis, Isaak Vasileiv, Alexander	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-M0N-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2, B10-0-WED-PM2 D1-P-TUE-P1-15 B3-0-M0N-PM2 D10-0-THU-PM1, D10-0-THU-PM1, D10-0-THU-PM2 E2-P-TUE-P1-24 B10-0-TUE-PM1 A9-P-THU-P2-3 A2-H-WED-PM2 B8-D-WED-PM2 B8-D-WED-PM2 B8-D-WED-PM1 D2-0-WED-PM1 D2-0-WED-PM2 B8-D-TUE-PH1 D2-0-WED-PM1 D2-0-WED-PM2 B8-P-THU-P2-4, B8-0-WED-PM2 D2-0-WED-PM1 D2-P-TUE-P1-5 E4-0-WED-AM2
V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahidyeganeh, Ali Vahlas, Constantin Vaideeswaran, Kaushik Vaidya, Amogh Vaithilingam, Balasubramanian Valant, Matjaz Valcuende Payá, Manuel Valdevit, Lorenzo Valencia Molina, Laura Daniela Valencia, Sergio	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P2-6 B11-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1 C4-O-WED-AM2, F4-O-MON-AM2 C1-O-FRI-PM1 A5-O-TUE-AM2, A7-I-P-TUE-P1-16 A5-O-WED-AM2 B2-O-FRI-AM2, C11-P-THU-P2-10 B6-P-TUE-P1-7 E6-O-FRI-AM2 A9-P-THU-P2-4 B5-P-TUE-P1-23 D1-O-THU-PM2 C5-O-FRI-AM2 C5-O-FRI-AM2 C5-O-FRI-AM2 C5-O-FRI-AM2 C5-O-FRI-AM2	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand Van Dijk, Nicholas Van Dijk, Niels Van Dyck, Dirk van Harten, Elleke van Harten, Elleke van Hooreweder, Brecht Van Humbeeck, Jan Van Landeghem, Hugo van Nostrum, Rene van Oosten, Dries	H2-O-MON-PM1 B7-P-THU-P2-2 C2-O-MON-AM2 H2-O-TUE-PM1 B1-O-WED-AM2 B7-H-FRI-AM2 B3-O-WED-AM2 D1-O-TUE-PM2, B1-O-FRI-PM1, B1-P-THU-P2-1, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM1 D1-O-TUE-PM1, H1-H-TUE-PM1, B3-O-MON-PM2 A5-O-TUE-PM2 A5-O-WED-PM1 E6-I/K-THU-AM2 B10-O-MON-PM1 B11-O-MON-PM2 B11-O-MON-PM2 C2-P-TUE-P1-11, C2-P-TUE-P1-12 B11-O-MON-PM2 B1-O-MON-PM2 B1-O-MON-PM2 B1-P-THU-P2-10 F1-I/K-MON-AM2 C2-P-TUE-P1-12 B11-O-MON-PM2 B1-O-MON-PM2 B1-O-MON-PM2 B1-P-THU-P2-10 F1-I/K-MON-AM2 C2-P-TUE-P1-11, C2-P-TUE-P1-12 B11-O-MON-PM2 B2-O-WED-PM2, B11-I/K-TUE-AM2,	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas Varlamova, Sofia Varnik, Fathollah Varnik, Fathollah Varona Caballero, Arcadio Varvaro, Gaspare Varzi, Alberto Vasco, Marina Vasconcelos, Wander Luiz Vasilakaki, Marianna Vasile, Eugeniu Vasileiadis, Isaak Vasileiadis, Isaak Vasileiadis, Isaak G. Vasiliev, Alexander Vasiliu, Ileana Cristina	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-M0N-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2, B10-0-WED-PM2 D1-P-TUE-P1-15 B3-0-M0N-PM2 D10-0-THU-PM1, D10-0-THU-PM1, D10-0-THU-PM2 B3-0-TUE-PM1 D2-0-WED-PM2 E2-P-TUE-P1-24 B10-0-TUE-PM1 A9-P-THU-P2-3 A2-H-WED-PM2 B8-0-WED-PM2 D2-0-WED-PM1 D2-0-WED-PM1 D2-0-WED-PM1 D2-0-WED-PM2 D3-0-TUE-PM1 D3-0-TUE-PM1 D3-0-TUE-PM1 D3-0-TUE-PM1 D3-0-TUE-PM1 D3-0-TUE-PM1 D3-0-TUE-PM1 D3-0-TUE-PM1 D3-0-TUE-PM1 D3-0-TUE-PM1 D3-0-TUE-PM1 D3-0-TUE-PM1 D3-0-TUE-PM1 D3-0-TUE-PM3 D3-0-WED-PM3 D3-0-WED-PM3 D3-0-WED-PM3 D3-0-WED-PM3 D3-0-WED-PM3 D3-0-TUE-P1-5 E4-0-WED-PM3
V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahidyeganeh, Ali Vahlas, Constantin Vaideeswaran, Kaushik Vaidya, Amogh Vaithilingam, Balasubramanian Valant, Matjaz Valcuende Payá, Manuel Valdevit, Lorenzo Valencia Lopez, Luis Valencia, Sergio Valenza, Fabrizio	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P2-6 B11-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1 C4-O-WED-AM2, F4-O-MON-AM2 C1-O-FRI-PM1 A5-O-TUE-AM2, A7-I-P-TUE-P1-16 A5-O-WED-AM2 B2-O-FRI-AM2, C11-P-THU-P2-10 B6-P-TUE-P1-7 E6-O-FRI-AM2 A9-P-THU-P2-4 B5-P-TUE-P1-23 D1-O-THU-PM2 C5-O-FRI-AM2 C5-O-FRI-AM2 C5-P-THU-P2-3, C5-P-THU-P2-14	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand Van Dijk, Nicholas Van Dijk, Niels Van Dyck, Dirk van Harten, Elleke van Harten, Elleke van Hooreweder, Brecht Van Landeghem, Hugo van Nostrum, Rene van Oosten, Dries Van Petegem, Steven	H2-O-MON-PM1 B7-P-THU-P2-2 C2-O-MON-AM2 H2-O-TUE-PM1 B1-O-WED-AM2 B7-H-FRI-AM2 B3-O-WED-AM2 D1-O-TUE-PM2, B1-O-FRI-PM1, B1-P-THU-P2-1, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2 E1-H-TUE-PM1 D1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-FRI-PM1, H1-H-TUE-PM1, B3-O-MON-PM2 A5-O-TUE-PM2 A5-O-WED-PM1 E6-I/K-THU-AM2 B10-O-MON-PM2 B11-O-MON-PM2 B1-P-THU-P2-10 F1-I/K-MON-AM2 C2-P-TUE-P1-11, C2-P-TUE-P1-12 B11-O-MON-PM2 B2-O-WED-PM2, B11-I/K-TUE-AM2, D4-O-MON-PM2,	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas Varlamova, Sofia Varnik, Fathollah Varnik, Fathollah Varona Caballero, Arcadio Varvaro, Gaspare Varzi, Alberto Vasco, Marina Vasconcelos, Wander Luiz Vasilakaki, Marianna Vasile, Eugeniu Vasileiadis, Isaak Vasileiadis, Isaak G. Vasiliev, Alexander Vasiliu, Ileana Cristina Vasil'kivskaya , Marina	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-M0N-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2, B10-0-WED-PM2 D1-P-TUE-P1-15 B3-0-M0N-PM2 D10-0-THU-PM1, D10-0-THU-PM1, D10-0-THU-PM2 E2-0-THU-PM1 D2-0-WED-PM2 E2-P-TUE-P1-24 B10-0-TUE-PM1 A9-P-THU-P2-3 A2-H-WED-PM2 B8-0-WED-PM2 D2-0-WED-PM1 D2-0-WED-PM1 D2-0-WED-PM2 D3-0-TUE-PM1 D4-0-TUE-PM1 D5-0-TUE-PM1 D5-0-TUE-PM1 D5-0-TUE-PM1 D5-0-TUE-PM1 D5-0-TUE-PM1 D5-0-TUE-PM1 D5-0-TUE-PM1 D5-0-TUE-PM1 D5-0-TUE-PM1 D5-0-WED-PM2 D5-0-WED-PM2 D5-0-WED-PM2 D5-0-WED-PM3 D5-0-TUE-P1-5 E4-0-WED-PM3 A7-II-P-THU-P2-3 A7-II-P-THU-P2-3
V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahidyeganeh, Ali Vahlas, Constantin Vaideeswaran, Kaushik Vaidya, Amogh Vaithilingam, Balasubramanian Valant, Matjaz Valcuende Payá, Manuel Valdevit, Lorenzo Valencia Lopez, Luis Valencia, Sergio Valenza, F.	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P2-6 B11-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1 C4-O-WED-AM2, F4-O-MON-AM2 C1-O-FRI-PM1 A5-O-TUE-AM2, A7-I-P-TUE-P1-16 A5-O-WED-AM2 B2-O-FRI-AM2, C11-P-THU-P2-10 B6-P-TUE-P1-7 E6-O-FRI-AM2 A9-P-THU-P2-4 B5-P-TUE-P1-23 D1-O-THU-PM2 C5-O-FRI-AM2 C5-O-FRI-AM2 C5-P-THU-P2-3, C5-P-THU-P2-14 C5-O-FRI-PM1	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand Van Dijk, Nicholas Van Dijk, Niels Van Dyck, Dirk van Harten, Elleke van Harten, Elleke van Hooreweder, Brecht Van Humbeeck, Jan Van Landeghem, Hugo van Nostrum, Rene van Oosten, Dries	H2-O-MON-PM1 B7-P-THU-P2-2 C2-O-MON-AM2 H2-O-TUE-PM1 B1-O-WED-AM2 B7-H-FRI-AM2 B3-O-WED-AM2 D1-O-TUE-PM2, B1-O-FRI-PM1, B1-P-THU-P2-1, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM1 D1-O-TUE-PM1, H1-H-TUE-PM1, B3-O-MON-PM2 A5-O-TUE-PM2 A5-O-WED-PM1 E6-I/K-THU-AM2 B10-O-MON-PM1 B11-O-MON-PM2 B11-O-MON-PM2 C2-P-TUE-P1-11, C2-P-TUE-P1-12 B11-O-MON-PM2 B1-O-MON-PM2 B1-O-MON-PM2 B1-P-THU-P2-10 F1-I/K-MON-AM2 C2-P-TUE-P1-12 B11-O-MON-PM2 B1-O-MON-PM2 B1-O-MON-PM2 B1-P-THU-P2-10 F1-I/K-MON-AM2 C2-P-TUE-P1-11, C2-P-TUE-P1-12 B11-O-MON-PM2 B2-O-WED-PM2, B11-I/K-TUE-AM2,	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas Varlamova, Sofia Varnik, Fathollah Varnik, Fathollah Varona Caballero, Arcadio Varvaro, Gaspare Varzi, Alberto Vasco, Marina Vasconcelos, Wander Luiz Vasilakaki, Marianna Vasile, Eugeniu Vasileiadis, Isaak Vasileiadis, Isaak G. Vasiliev, Alexander Vasiliu, Ileana Cristina Vasil'kivskaya, Marina Vasin, Yevgen	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-M0N-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2, B10-0-WED-PM2 D1-P-TUE-P1-15 B3-0-M0N-PM2 D10-0-THU-PM1, D10-0-THU-PM1, D10-0-THU-PM2 E2-0-THU-PM1 D2-0-WED-PM2 E2-P-TUE-P1-24 B10-0-TUE-PM1 A9-P-THU-P2-3 A2-H-WED-PM2 B8-P-THU-P2-4, B8-0-WED-PM2 D2-0-WED-PM1 D2-P-TUE-P1-5 E4-0-WED-MM2 A7-II-P-THU-P2-3 A7-II-P-THU-P2-3 A7-II-P-THU-P2-3
V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahidyeganeh, Ali Vahlas, Constantin Vaideeswaran, Kaushik Vaidya, Amogh Vaithilingam, Balasubramanian Valant, Matjaz Valcuende Payá, Manuel Valdevit, Lorenzo Valencia Lopez, Luis Valencia, Sergio Valenza, Fabrizio	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P2-6 B11-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1 C4-O-WED-AM2, F4-O-MON-AM2 C1-O-FRI-PM1 A5-O-TUE-AM2, A7-I-P-TUE-P1-7 E6-O-FRI-AM2, C11-P-THU-P2-10 B6-P-TUE-P1-7 E6-O-FRI-AM2 A9-P-THU-P2-4 B5-P-TUE-P1-23 D1-O-THU-PM2 C5-O-FRI-AM2 C5-O-FRI-AM2 C5-P-THU-P2-3, C5-P-THU-P2-14 C5-O-FRI-PM1 E3-O-WED-PM2,	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand Van Dijk, Nicholas Van Dijk, Niels Van Dyck, Dirk van Harten, Elleke van Harten, Elleke van Hooreweder, Brecht Van Landeghem, Hugo van Nostrum, Rene van Oosten, Dries Van Petegem, Steven	H2-O-MON-PM1 B7-P-THU-P2-2 C2-O-MON-AM2 H2-O-TUE-PM1 B1-O-WED-AM2 B7-H-FRI-AM2 B3-O-WED-AM2 D1-O-TUE-PM2, B1-O-FRI-PM1, B1-P-THU-P2-1, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM1, B1-O-TUE-PM1, B3-O-MON-PM2 B11-O-MON-PM2 A5-O-TUE-PM2 A5-O-WED-PM1 E6-I/K-THU-AM2 B10-O-MON-PM1 B11-O-MON-PM2 B1-P-THU-P2-10 F1-I/K-MON-AM2 C2-P-TUE-P1-11, C2-P-TUE-P1-12 B11-O-MON-PM2 B2-O-WED-PM2, B11-I/K-TUE-AM2, D1-O-WBD-PM1, D5-O-FRI-AM2, D1-O-FRI-AM2, D1-O-FRI-AM2,	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas Varlamova, Sofia Varnik, Fathollah Varnik, Fathollah Varona Caballero, Arcadio Varvaro, Gaspare Varzi, Alberto Vasco, Marina Vasconcelos, Wander Luiz Vasilakaki, Marianna Vasile, Eugeniu Vasileiadis, Isaak Vasileiadis, Isaak G. Vasiliev, Alexander Vasiliu, Ileana Cristina Vasil'kivskaya , Marina	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-MON-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2, B10-0-WED-PM2 D1-P-TUE-P1-15 B3-0-MON-PM2 D10-0-THU-PM1, D10-0-THU-PM1, D10-0-THU-PM2 E2-D-TUE-PM1 D2-0-WED-PM2 E2-P-TUE-P1-24 B10-0-TUE-PM1 A9-P-THU-P2-3 A2-H-WED-PM2 B8-P-HU-P2-4, B8-0-WED-PM2 D2-0-WED-PM1 D2-P-TUE-P1-5 E4-0-WED-PM2 A7-II-P-THU-P2-3 A7-II-P-THU-P2-3 A7-II-P-THU-P2-11 C1-0-WED-PM1 B5-P-TUE-P1-11
V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahidyeganeh, Ali Vahlas, Constantin Vaideeswaran, Kaushik Vaidya, Amogh Vaithilingam, Balasubramanian Valant, Matjaz Valcuende Payá, Manuel Valdevit, Lorenzo Valencia Lopez, Luis Valencia, Sergio Valenza, Fabrizio Valenzuela, Loreto	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P2-6 B11-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1 C4-O-WED-AM2, F4-O-MON-AM2 C1-O-FRI-PM1 A5-O-TUE-AM2, A7-I-P-TUE-P1-16 A5-O-WED-AM2 B2-O-FRI-AM2, C11-P-THU-P2-10 B6-P-TUE-P1-7 E6-O-FRI-AM2 A9-P-THU-P2-4 B5-P-TUE-P1-23 D1-O-THU-PM2 C5-O-FRI-AM2 C5-O-FRI-AM2 C5-P-THU-P2-3, C5-P-THU-P2-14 C5-O-FRI-PM1	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand Van Dijk, Nicholas Van Dijk, Niels Van Dyck, Dirk van Harten, Elleke van Harten, Elleke van Hooreweder, Brecht Van Landeghem, Hugo van Nostrum, Rene van Oosten, Dries Van Petegem, Steven	H2-O-MON-PM1 B7-P-THU-P2-2 C2-O-MON-AM2 H2-O-TUE-PM1 B1-O-WED-AM2 B7-H-FRI-AM2 B3-O-WED-AM2 D1-O-TUE-PM2, B1-O-FRI-PM1, B1-P-THU-P2-1, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM1, H1-H-TUE-PM1, H1-H-TUE-PM1, B3-O-MON-PM2 A5-O-TUE-PM2 A5-O-WED-PM1 E6-I/K-THU-AM2 B11-O-MON-PM2 B11-O-MON-PM2 B1-P-THU-P2-10 F1-I/K-MON-AM2 C2-P-TUE-P1-11, C2-P-TUE-P1-12 B11-O-MON-PM2 B1-O-MON-PM2 B1-P-THU-P2-10 F1-I/K-MON-AM2 C2-P-TUE-P1-11, C2-P-TUE-P1-11 C3-P-TUE-P1-11 C4-O-MON-PM2 B1-O-MON-PM2 B1-O-MON-PM2 B1-O-MON-PM2 B1-O-MON-PM2 B1-O-MON-PM2 B1-O-MON-PM2 B1-O-WED-PM1, D5-O-FRI-AM2,	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas Varlamova, Sofia Varnik, Fathollah Varnik, Fathollah Varona Caballero, Arcadio Varvaro, Gaspare Varzi, Alberto Vasco, Marina Vasconcelos, Wander Luiz Vasilakaki, Marianna Vasile, Eugeniu Vasileiadis, Isaak Vasileiadis, Isaak G. Vasiliev, Alexander Vasiliu, Ileana Cristina Vasil'kivskaya, Marina Vasin, Yevgen	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-M0N-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2, B10-0-WED-PM2 D1-P-TUE-P1-15 B3-0-M0N-PM2 D10-0-THU-PM1, D10-0-THU-PM1, D10-0-THU-PM2 E2-0-THU-PM1 D2-0-WED-PM2 E2-P-TUE-P1-24 B10-0-TUE-PM1 A9-P-THU-P2-3 A2-H-WED-PM2 B8-P-THU-P2-4, B8-0-WED-PM2 D2-0-WED-PM1 D2-P-TUE-P1-5 E4-0-WED-MM2 A7-II-P-THU-P2-3 A7-II-P-THU-P2-3 A7-II-P-THU-P2-3
V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahidyeganeh, Ali Vahlas, Constantin Vaideeswaran, Kaushik Vaidya, Amogh Vaithilingam, Balasubramanian Valthilingam, Balasubramanian Valuende Payá, Manuel Valdevit, Lorenzo Valencia Lopez, Luis Valencia, Sergio Valenza, Fabrizio Valenza, Fabrizio	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P2-6 B11-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1 C4-O-WED-AM2, F4-O-MON-AM2 C1-O-FRI-PM1 A5-O-TUE-AM2, A7-I-P-TUE-P1-16 A5-O-WED-AM2 B2-O-FRI-AM2, C11-P-THU-P2-10 B6-P-TUE-P1-7 E6-O-FRI-AM2 A9-P-THU-P2-4 B5-P-TUE-P1-23 D1-O-THU-PM2 C5-O-FRI-AM2 C5-O-FRI-AM2 C5-P-THU-P2-3, C5-P-THU-P2-14 C5-O-FRI-PM1 E3-O-WED-PM2, E3-O-WED-PM2	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand Van Dijk, Nicholas Van Dijk, Niels Van Dyck, Dirk van Harten, Elleke van Harten, Elleke van Hooreweder, Brecht Van Landeghem, Hugo van Nostrum, Rene van Oosten, Dries Van Petegem, Steven	H2-O-MON-PM1 B7-P-THU-P2-2 C2-O-MON-AM2 H2-O-TUE-PM1 B1-O-WED-AM2 B7-H-FRI-AM2 B3-O-WED-AM2 D1-O-TUE-PM2, B1-O-FRI-PM1, B1-P-THU-P2-1, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM1, B1-O-TUE-PM1, B3-O-MON-PM2 B11-O-MON-PM2 A5-O-TUE-PM2 A5-O-WED-PM1 E6-I/K-THU-AM2 B10-O-MON-PM1 B11-O-MON-PM2 B1-P-THU-P2-10 F1-I/K-MON-AM2 C2-P-TUE-P1-11, C2-P-TUE-P1-12 B11-O-MON-PM2 B2-O-WED-PM2, B11-I/K-TUE-AM2, D1-O-WBD-PM1, D5-O-FRI-AM2, D1-O-FRI-AM2, D1-O-FRI-AM2,	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas Varlamova, Sofia Varnik, Fathollah Varnik, Fathollah Varona Caballero, Arcadio Varvaro, Gaspare Varzi, Alberto Vasco, Marina Vasconcelos, Wander Luiz Vasilakaki, Marianna Vasile, Eugeniu Vasileiadis, Isaak Vasileiadis, Isaak G. Vasiliev, Alexander Vasili, Ileana Cristina Vasin, Yevgen Vasquez Sandoval, Dreidy Mercedes	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-MON-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2, B10-0-WED-PM2 D1-P-TUE-P1-15 B3-0-MON-PM2 D10-0-THU-PM1, D10-0-THU-PM2 D5-0-THU-PM1, D10-0-THU-PM2 E2-P-TUE-P1-24 B10-0-TUE-PM1 A9-P-THU-P2-3 A2-H-WED-PM2 B8-0-WED-PM2 D2-0-WED-PM1 D2-0-WED-PM1 D2-0-WED-PM1 D2-0-TUE-P1-15 C1-0-WED-PM1 D2-D-TUE-P1-15 E4-0-WED-M2 D2-D-TUE-P1-15 E4-0-WED-M1 D2-P-TUE-P1-11 C1-0-WED-PM1
V. S. , Olsen Vacandio, Florence Vaclav, Paidar Václavová, Kristína Vadilonga, Simone Vadrucci, Monia Vaes, Urbain Vafeidis, Anastasios Vahidyeganeh, Ali Vahlas, Constantin Vaideeswaran, Kaushik Vaidya, Amogh Vaithilingam, Balasubramanian Valant, Matjaz Valcuende Payá, Manuel Valdevit, Lorenzo Valencia Lopez, Luis Valencia, Sergio Valenza, Fabrizio Valenzuela, Loreto	D2-P-TUE-P1-29 E2-O-WED-AM2, E2-P-TUE-P1-18, E2-O-TUE-PM1 D10-I-P-TUE-P1-1 B4-O-THU-AM2 D1-O-FRI-PM1 E4-P-THU-P2-13 D10-O-THU-PM1 D4-P-TUE-P2-6 B11-P-TUE-P1-7 C1-O-MON-PM2, D10-O-THU-PM1 C4-O-WED-AM2, F4-O-MON-AM2 C1-O-FRI-PM1 A5-O-TUE-AM2, A7-I-P-TUE-P1-16 A5-O-WED-AM2, E3-O-WED-AM2 B2-O-FRI-AM2, C11-P-THU-P2-10 B6-P-TUE-P1-7 E6-O-FRI-AM2 A9-P-THU-P2-4 B5-P-TUE-P1-23 D1-O-THU-PM2 C5-O-FRI-AM2 C5-O-FRI-AM2 C5-P-THU-P2-3, C5-P-THU-P2-3, C5-P-THU-P2-14 C5-O-FRI-PM1 E3-O-WED-PM2, E3-O-WED-PM2, E3-O-WED-PM2, E3-O-WED-PM1,	Van de Sande, Jorn Van de Voorde, Ben van den Brand, Jeroen Van den Bulck, Amy van der Merwe, J. W. Van Der Voort, Pascal van der Zwaag, Srbrand Van Dijk, Nicholas Van Dijk, Niels Van Dyck, Dirk van Harten, Elleke van Harten, Elleke van Hooreweder, Brecht Van Landeghem, Hugo van Nostrum, Rene van Oosten, Dries Van Petegem, Steven	H2-O-MON-PM1 B7-P-THU-P2-2 C2-O-MON-AM2 H2-O-TUE-PM1 B1-O-WED-AM2 B7-H-FRI-AM2 B3-O-WED-AM2 D1-O-TUE-PM2, B1-O-FRI-PM1, B1-P-THU-P2-1, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-TUE-PM1, B1-O-TUE-PM1, B3-O-MON-PM2 B11-O-MON-PM2 A5-O-TUE-PM2 A5-O-WED-PM1 E6-I/K-THU-AM2 B10-O-MON-PM1 B11-O-MON-PM2 B1-P-THU-P2-10 F1-I/K-MON-AM2 C2-P-TUE-P1-11, C2-P-TUE-P1-12 B11-O-MON-PM2 B2-O-WED-PM2, B11-I/K-TUE-AM2, D1-O-WBD-PM1, D5-O-FRI-AM2, D1-O-FRI-AM2, D1-O-FRI-AM2,	Vanek, Premysl Vaniš, Jan Vanpeene, victor Vara Salazar, Gemma Vardavoulias, Michalis Varelas, Charalambos Varga, Marian Varga, Markus Varitis, Savas Varlamova, Sofia Varnik, Fathollah Varnik, Fathollah Varona Caballero, Arcadio Varvaro, Gaspare Varzi, Alberto Vasco, Marina Vasconcelos, Wander Luiz Vasilakaki, Marianna Vasile, Eugeniu Vasileiadis, Isaak Vasileiadis, Isaak G. Vasiliev, Alexander Vasiliu, Ileana Cristina Vasir, Yevgen Vasquez Sandoval, Dreidy Mercedes Vassallo, Espedito	B7-0-THU-PM1 F1-P-TUE-P1-6 A7-H-THU-PM2 E2-0-TUE-PM2 C1-0-MON-PM2, C2-P-TUE-P1-4 E3-0-TUE-PM2 A3-P-TUE-P1-11 A7-0-WED-PM1 B10-0-TUE-PM2, B10-0-WED-PM2 D1-P-TUE-P1-15 B3-0-MON-PM2 D10-0-THU-PM1, D10-0-THU-PM1, D10-0-THU-PM1 D2-0-WED-PM2 E2-P-TUE-P1-24 B10-0-TUE-PM1 A9-P-THU-P2-3 A2-H-WED-PM2 B8-0-WED-PM2 D2-0-WED-PM1 D2-0-WED-PM1 D2-P-TUE-P1-5 E4-0-WED-PM1 D2-P-TUE-P1-15 C1-0-WED-PM1

Vattur Sundaram, Maheswaran	C3-H-THU-PM2	Vieira, Teresa	B6-P-TUE-P1-2, C6-O-MON-PM1	Vollmer, Malte	B11-O-MON-PM2
Vaughan, Alun	A3-P-TUE-P1-6	Violatii Vaastastiaa		Vollmer, Robert	C6-O-MON-PM2
Vaughan, Gavin	B9-0-THU-PM2	Viglaki, Konstantina	F1-0-TUE-AM2	Volpe, Annalisa	C2-H-TUE-AM2
Vavouliotis, Antonios	E2-O-TUE-PM2,	Vignoles, Gérard	D9-0-MON-PM2	Volpi, Giorgio	B7-0-FRI-PM1
·	A1-O-FRI-PM1	Vijh, Ashok	E2-0-MON-PM2	Volskiy, Vladimir	H2-O-MON-PM1
Vaxevanidis, Nikolaos	C9-O-FRI-AM2	Vikarchuk, Anatoly	D4-H-TUE-PM2, D2-O-WED-PM2	von Borany, Johannes	C11-O-THU-AM2,
Vázquez, Manuel	A2-P-THU-P2-10	Vila, Mercedes	A1-P-THU-P2-5		C11-H-THU-AM2
Vedani, Maurizio	C10-I/K-FRI-PM1	Vilaeti, Agapi	F1-0-M0N-AM2	von Hartrott, Philipp	E6-0-THU-PM2
Vegso, Karol	D1-0-TUE-AM2	Vilani, Cecilia	A1-P-THU-P2-3	Von Hehl, Axel	E6-0-FRI-PM1
Vekilova, Olga	D10-H-FRI-PM1	Vilatela, Juan Jose	E2-0-TUE-PM2		E6-P-THU-P2-2, E6-P-THU-P2-5,
	A6-O-THU-PM2, A6-O-FRI-PM1,	Vilches, Clara	F2-0-WED-AM2	von Hehl, Axel	E6-P-THU-P2-3,
Vekinis, George	A3-P-TUE-P1-15,	Vilela, Patrick	A5-P-TUE-P1-7	voil Helit, Axet	E6-0-THU-AM2,
vekills, dedige	A3-P-TUE-P1-16,	Vilela, Sérgio M. F.	B7-0-WED-PM1		E6-P-THU-P2-1, E6-O-THU-AM2
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Velasco, Beatriz	B5-0-M0N-AM2	Villanova, Julie	B2-O-WED-PM2,	Von Storch, Henrik	E1-0-MON-PM1
Velasquez Orozco, Maria Camila	F1-0-TUE-PM2		C3-O-FRI-PM1	von Zamory, Jan	E2-0-M0N-PM1
Walandara District	C11-O-THU-PM1,	Villaverde, Gonzalo	F3-O-THU-PM1	Vonk, Niels	D4-H-WED-PM1
Velessiotis, Dimitrios	C11-O-THU-PM2	Villaverde, Gonzalo	F3-0-THU-AM2	Voorhees, Peter	D1-O-WED-AM2
Velinov, Nena	B6-P-TUE-P1-26	Villechaise, Patrick	B3-O-WED-AM2, B11-O-THU-AM2		B10-I/K-M0N-AM2
Velmachos, THEODOROS G.	A3-P-TUE-P1-22	Villechaise, Patrick	B3-0-WED-PM1	Vormwald, Michael	B10-0-M0N-AM2,
Velmurugan, R	E6-0-FRI-PM1		F3-0-THU-PM1	Torringto, Friends	B10-O-MON-PM2, B10-O-TUE-AM2
Venkata Siva, Subbarao Bathula	B11-0-WED-AM2	Villegas, Maria Rocío Villemot, Vincent	C3-I/K-FRI-AM2	Vorndran, Stefan	E6-0-THU-PM2
Venkatachalapathy, Vishnukanthan	E3-0-M0N-PM2	Vincent, Luc		Voropaieff, Jean-Pierre	A3-0-M0N-AM2
Venkatapathy, Ethiraj	A6-I/K-THU-PM2	•	A3-P-TUE-P1-25	Voter, Arthur	D10-0-FRI-PM1
Ventelon, Lisa	D8-H-WED-PM1	Vines, Lasse	D2-O-TUE-PM2	Vourlias, G.	A5-P-TUE-P1-12
Ventura, Alessandro	D9-P-TUE-P1-6	Vinnichenko, Mykola	C2-0-MON-PM2	Tourudo, O.	C1-H-TUE-AM2,
Vera Palou, Manel	C4-O-THU-PM1	Vinogradov, Alexandr	F2-P-THU-P2-8		D2-P-TUE-P1-8,
Verch, Andreas	C10-O-THU-AM2	Virot, F.	E4-0-WED-PM2		A3-P-TUE-P1-9,
Vercruysse, Chris	F4-0-M0N-AM2	Virtanen, Sannakaisa	E3-O-WED-PM2	Vourlias, George	A2-P-THU-P2-9, C1-I-P-TUE-P1-20,
Verdene , Tal	C2-H-MON-AM2	Virtanen, Suvi	A3-P-TUE-P1-6		D2-O-MON-AM2,
Verdier, Marc	D1-O-WED-PM1	Viscardi, Guido	B7-0-FRI-PM1, A7-II-P-THU-P2-24,		E3-P-TUE-P1-13
V D. T	E2-O-TUE-PM1,	Viscardi, odido	A7-II-P-THU-P2-25	Vourlias, Georgios	A7-I-P-TUE-P1-6
Vereecken, Philippe	E2-0-TUE-PM1	Vishnyakov, Vladmir	E4-0-WED-PM1	Vouroutzis, Nikolaos	D2-P-TUE-P1-16, C11-O-THU-PM1,
Veretennikov, Lev	D2-P-TUE-P1-24	Visvini, GLYKERIA A.	A3-P-TUE-P1-22	VOUI OUTZIS, INIKOTAUS	E3-P-TUE-P1-19
Verhaeghe, Frederik	H2-O-TUE-PM1	Vít, Jan	D9-O-MON-PM2	Voznyy, Oleksandr	D1-O-TUE-AM2
Verleysen, Patricia	B11-0-WED-PM2	Vitale Brovarone, Chiara	F1-0-TUE-PM2	Vozzi, Giovanni	F1-P-TUE-P1-7,
Verlinden, Bert	B11-0-M0N-PM2	Vitale-Brovarone , Chiara	F2-O-WED-AM2	vozzi, Giovaiiii	F1-0-TUE-PM1
Vermaut, Philippe	B3-O-TUE-PM1,		F2-P-THU-P2-3,	Vranescu, Dragos	C1-O-FRI-AM2
	B8-O-THU-AM2		F1-P-TUE-P1-5,	Vrel, Dominique	C10-P-THU-P2-7, C3-P-THU-P2-12
Vermonden, Tina	F1-I/K-MON-AM2	Vitale-Brovarone, Chiara	F1-P-TUE-P1-7, F2-P-THU-P2-5,	Vretenár, Viliam	A7-0-WED-PM1
Vermont, Mélina	B3-O-MON-PM2		F1-0-TUE-PM1,		A7-II-P-THU-P2-2
Vernardou, Dimitra	C1-II-P-THU-P2-18		F2-P-THU-P2-7	Vryzas, Zisis	
Veron, Muriel	B1-P-THU-P2-10		B1-O-THU-PM2, D9-I/K-MON-AM2,	Vsianska, Monika	D8-O-FRI-AM2
VERSACE, CARLO	E2-P-TUE-P1-16	Vivas, Javier	B1-0-TUE-PM2,	VU, Viet Q.	C10-O-WED-AM2
Versaci, Daniele	E2-O-MON-PM1		B1-P-THU-P2-11	Vuillemin, Bruno	D6-O-FRI-PM1
Versteylen, Casper	D1-O-TUE-PM2, B3-O-MON-PM2	Vivek, Anupam	B2-O-THU-PM2	Vukmirovic, Jelena	C11-P-THU-P2-14
Verstraelen, Toon	B7-0-THU-AM2	Vladimirov, Pavel	E4-0-WED-AM2	Vulpe, Diana	B7-0-THU-PM2
Vertruyen, Bénédicte	C4-P-THU-P2-4	Vladu, Ioana Carmen	B10-0-WED-PM2	Vulpe, Silviu	E1-P-TUE-P1-3, A1-P-THU-P2-13
Verwerft, Marc	E4-0-WED-PM1	Vlaicu, Ioana Dorina	A5-0-TUE-PM1	Vultos, Winnie	B3-O-WED-PM1
Ves, S.	D3-P-THU-P2-3	Vlandas, Alexis	A3-0-MON-PM2,	Vyzhva, Sergey	B6-P-TUE-P1-6
ves, J.	D3-P-THU-P2-2,		C1-II-P-THU-P2-19 C1-O-TUE-PM2, C1-	W	
Ves, Sotirios	D3-P-THU-P2-4,	Vlček, Jaroslav	0-WED-AM2	W Dreier,	C8-P-THU-P2-18
	D3-P-THU-P2-5	Vleugels, Jef	D9-O-MON-PM2	Wächter, Michael	B10-I/K-MON-AM2
Vesely, Jozef	B2-0-THU-PM1	-	F4-O-MON-AM2,	Wada, Takeshi	F1-P-TUE-P1-16
Veselý, Jozef	B4-0-THU-AM2	Vloebergh, Karen	C4-0-WED-AM2		
Veselý, Marian	A7-0-WED-PM1	Vo, Nghia	B3-O-TUE-AM2	Wadeson, Nicola	D1-0-THU-AM2
Veyre, Laurent	A5-O-TUE-AM2,	Vogel, Dirk	B3-0-THU-AM2	Wågberg, Lars	D2-O-THU-PM1 F6-O-THU-PM2,
•	A1-P-THU-P2-4	Vogel, Florian	B3-P-TUE-P1-8,	Wagermaier, Wolfgang	F6-U-THU-PM2, F6-O-THU-PM2
VEYS-RENAUX, Delphine	C1-O-THU-PM2		B10-0-TUE-PM2 B10-0-TUE-PM2,	Wagner, Francis	D10-I-P-TUE-P1-12
Viana, Filomena	C6-O-MON-PM1, A1-O-FRI-AM2	Vogiatzis, Christos	C1-I-P-TUE-P1-20	WAGNER, Francis	B11-O-WED-PM2
Viani, Alberto	B11-P-TUE-P1-4	Vogrinčič, Peter	A7-O-WED-PM1	Waheed, Sana	D4-O-MON-PM1
Vicario, Iban	E6-O-FRI-PM1		D9-O-TUE-AM2,	Wahnón, Perla	A7-0-TUE-PM1
Vicent, Mónica	F4-0-MON-AM2	Vogt, Jean-Bernard	B11-I/K-MON-AM2	Waki, Hiroyuki	C1-O-TUE-PM2
Vidal, Sorach	E3-P-TUE-P1-24	Voiculescu, Ionelia	D9-P-TUE-P1-5	Walczak, Katarzyna	E1-P-TUE-P1-1
Vieira Nunes, Aline Raquel	F4-P-TUE-P1-8	Völker, Bernhard	B8-0-THU-PM2,	·	F5-0-FRI-AM2, C1-
	B6-P-TUE-P1-2,		B4-0-THU-PM2	Walkowicz, Monika	II-P-THU-P2-1
Vieira, Manuel	B10-0-WED-PM1	Völker, Bernhard	B4-0-THU-PM2	Walnsch, Alexander	B11-0-M0N-PM2
Vieira Manuel F	C6-O-MON-PM1,	Völkl, Rainer	B3-O-TUE-PM1, B8-P-THU-P2-2	Walter, Christian	E1-P-TUE-P1-6
Vieira, Manuel F.	A1-O-FRI-AM2		DO 1 1110 1 Z Z		

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·	D2-P-TUE-P1-4
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Wang, Bo	B7-0-WED-PM2,
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Wang, Chuanyun	C6-P-TUE-P1-6,
Wang, Cong	C6-P-TUE-P1-7
Wang, D.	A7-H-MON-PM2
Wang, Di	D2-O-MON-PM1
Wang, Ding	D5-O-THU-PM1
Wang, Dong	A7-I-P-TUE-P1-10
Wang, Dongjie	D10-II-P-THU-P2-
wang, dongjie	D6-P-THU-P2-1
Wang, Fangzhou	A2-P-THU-P2-10
Wang, Haifeng	B1-O-FRI-AM2, B9-P-THU-P2-2
Wang, Heyu	F6-0-THU-PM1
Wang, Huiyuan	B2-0-TUE-PM1
Wang, Jiangting	B1-O-TUE-PM1, B1-H-TUE-PM1, B1-O-THU-PM1, B1-O-THU-PM2
Wang, Jun	D1-P-TUE-P1-3
Wang, Junsheng	D5-O-FRI-PM1
Wang, JunWei	C5-P-THU-P2-9
Wang, Leyun	D1-O-THU-PM1
Wang, Meimei	B11-0-TUE-PM2,
-	B1-I/K-FRI-PM1 B1-O-WED-PM2
Wang, Mingming Wang, Xiao-chen	C6-O-MON-PM1
wang, xiaodong	C10-H-WED-PM1
Wang, Xiebin	B11-0-MON-PM2
Wang, Yanguo	D2-H-TUE-PM2
Wang, Yanhui	B1-0-WED-PM2
Wang, Yiqiang	B2-O-MON-PM1, B1-O-TUE-PM2, B8-O-THU-PM2
Wang, Yong	A9-H-THU-PM2
Wang, Zheng	B5-0-TUE-AM2
Wang, Zhenxin	A5-H-MON-PM2
Wangkoh, Ming	B3-0-M0N-AM2
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Warde, Micheline	E1-0-MON-PM2
Warias, Jonas	D1-P-TUE-P1-8
Wärner, Hugo	B11-0-M0N-AM2
Waroquier, Michel	B7-0-FRI-AM2, B7-0-THU-AM2, B7-0-THU-AM2, B7-0-THU-PM1
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Waseda, Osamu	B1-0-FRI-AM2
Waseda, Osamu Waters, Cindy	C4-O-THU-PM2
Waseda, Osamu Waters, Cindy Wawrzyk, Krzysztof	C4-O-THU-PM2 D10-I-P-TUE-P1-6
Waseda, Osamu Waters, Cindy Wawrzyk, Krzysztof Wearing, David	C4-O-THU-PM2 D10-I-P-TUE-P1-6 D8-H-WED-PM2
Waseda, Osamu Waters, Cindy Wawrzyk, Krzysztof Wearing, David Weber, Ludger	C4-O-THU-PM2 D10-I-P-TUE-P1-6
Waseda, Osamu Waters, Cindy Wawrzyk, Krzysztof Wearing, David Weber, Ludger Weber, Markus	C4-O-THU-PM2 D10-I-P-TUE-P1-6 D8-H-WED-PM2 C5-O-FRI-AM2
Waser ^a , Osamu Waters, Cindy Wawrzyk, Krzysztof Wearing, David Weber, Ludger Weber, Markus Wee, ChangHyun	C4-0-THU-PM2 D10-1-P-TUE-P1-6 D8-H-WED-PM2 C5-0-FRI-AM2 E6-0-THU-PM1
Waseda, Osamu Waters, Cindy Wawrzyk, Krzysztof Wearing, David Weber, Ludger Weber, Markus Wee, ChangHyun Wegener, Konrad	C4-0-THU-PM2 D10-I-P-TUE-P1-6 D8-H-WED-PM2 C5-0-FRI-AM2 E6-0-THU-PM1 C7-0-TUE-PM2
Waseda, Osamu Waters, Cindy Wawrzyk, Krzysztof Wearing, David Weber, Ludger Weber, Markus Wee, ChangHyun Wegener, Konrad Węglewski, Witold	C4-0-THU-PM2 D10-I-P-TUE-P1-6 D8-H-WED-PM2 C5-0-FRI-AM2 E6-0-THU-PM1 C7-0-TUE-PM2 C4-0-FRI-AM2
Warren, Oden Waseda, Osamu Waters, Cindy Wawrzyk, Krzysztof Wearing, David Weber, Ludger Weber, Markus Wee, ChangHyun Weglewski, Witold Węglowski, Marek Wei, Dong Bo	C4-0-THU-PM2 D10-I-P-TUE-P1-6 D8-H-WED-PM2 C5-0-FRI-AM2 E6-0-THU-PM1 C7-0-TUE-PM2 C4-0-FRI-AM2 B6-P-TUE-P1-5
Waseda, Osamu Waters, Cindy Wawrzyk, Krzysztof Wearing, David Weber, Ludger Weber, Markus Wee, ChangHyun Wegener, Konrad Węglewski, Witold Węglowski, Marek Wei, Dong Bo	C4-0-THU-PM2 D10-I-P-TUE-P1-6 D8-H-WED-PM2 C5-0-FRI-AM2 E6-0-THU-PM1 C7-0-TUE-PM2 C4-0-FRI-AM2 B6-P-TUE-P1-5 C6-P-TUE-P1-13
Waseda, Osamu Waters, Cindy Wawrzyk, Krzysztof Wearing, David Weber, Ludger Weber, Markus Wee, ChangHyun Wegener, Konrad Węglewski, Witold Węglowski, Marek Wei, Dong Bo Wei, Wang	C4-0-THU-PM2 D10-I-P-TUE-P1-6 D8-H-WED-PM2 C5-0-FRI-AM2 E6-0-THU-PM1 C7-0-TUE-PM2 C4-0-FRI-AM2 B6-P-TUE-P1-5 C6-P-TUE-P1-13 C1-0-WED-PM2
Waseda, Osamu Waters, Cindy Wawrzyk, Krzysztof Wearing, David Weber, Ludger Weber, Markus Wee, ChangHyun Wegener, Konrad Weglewski, Witold Weglowski, Marek Wei, Dong Bo Wei, Wang Wei, Xiang Fei	C4-0-THU-PM2 D10-I-P-TUE-P1-6 D8-H-WED-PM2 C5-0-FRI-AM2 E6-0-THU-PM1 C7-0-TUE-PM2 C4-0-FRI-AM2 B6-P-TUE-P1-5 C6-P-TUE-P1-13 C1-0-WED-PM2 C1-0-FRI-PM1
Waseda, Osamu Waters, Cindy Wawrzyk, Krzysztof Wearing, David Weber, Ludger Weber, Markus Wee, ChangHyun Wegener, Konrad Węglewski, Witold Węglowski, Marek Wei, Dong Bo Wei, Wang Wei, Xiang Fei Weibel, Alicia	C4-0-THU-PM2 D10-I-P-TUE-P1-6 D8-H-WED-PM2 C5-0-FRI-AM2 E6-0-THU-PM1 C7-0-TUE-PM2 C4-0-FRI-AM2 B6-P-TUE-P1-5 C6-P-TUE-P1-13 C1-0-WED-PM2 C1-0-FRI-PM1 C1-0-WED-PM2
Waseda, Osamu Waters, Cindy Wawrzyk, Krzysztof Wearing, David Weber, Ludger Weber, Markus Wee, ChangHyun Wegener, Konrad Węglewski, Witold Węglowski, Marek Wei, Dong Bo Wei, Wang Wei, Xiang Fei Weibet, Alicia	C4-0-THU-PM2 D10-I-P-TUE-P1-6 D8-H-WED-PM2 C5-0-FRI-AM2 E6-0-THU-PM1 C7-0-TUE-PM2 C4-0-FRI-AM2 B6-P-TUE-P1-5 C6-P-TUE-P1-13 C1-0-WED-PM2 C1-0-FRI-PM1 C1-0-WED-PM2 A1-0-FRI-AM2
Waseda, Osamu Waters, Cindy Wawrzyk, Krzysztof Wearing, David Weber, Ludger Weber, Markus Wee, ChangHyun Wegener, Konrad Węglewski, Witold Węglowski, Marek	C4-0-THU-PM2 D10-I-P-TUE-P1-6 D8-H-WED-PM2 C5-0-FRI-AM2 E6-0-THU-PM1 C7-0-TUE-PM2 C4-0-FRI-AM2 B6-P-TUE-P1-5 C6-P-TUE-P1-13 C1-0-WED-PM2 C1-0-FRI-PM1 C1-0-WED-PM2 A1-0-FRI-AM2 C8-0-THU-AM2

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Weiss, Davis	H1-H-MON-PM2
Weiss, Laurent	C4-O-THU-PM2, C10-O-WED-PM2
Weissmüller, Jörg	F1-P-TUE-P1-16
Wejrzanowski, Tomasz	D10-II-P-THU-P2-5
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Weller, Dieter	A2-H-WED-PM2
Weltsch, Zoltan	C5-P-THU-P2-12
Wen, Haiming	D2-0-M0N-PM1, C10-0-FRI-AM2 D5-0-FRI-AM2,
Wen, Wei	D5-P-THU-P2-1
Wendler, Elke	D1-P-TUE-P1-1
Wendtland, Paul	A2-P-THU-P2-11
Werbach, Katharina	D4-O-TUE-PM1
Wercinski, Paul	A6-I/K-THU-PM2
Werner, Peter	A2-P-THU-P2-13
Wessel, Egbert	B11-O-TUE-PM2
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West, B.	D1-P-TUE-P1-27
Weyand, Steffi	C11-O-FRI-AM2
Weyland, Matthew	B1-O-THU-PM1
White, Emma	H1-O-TUE-PM1
Wicke, Marcel	B10-0-M0N-PM2 C11-0-THU-PM2
Wieck, Adreas Wieczorek, Dominika	D8-O-WED-PM2
Wieczorek, Jan	A9-0-THU-PM2
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Wiehoff, Pierre	C7-O-TUE-PM2, B11-O-MON-PM1
Wieland, D.C. Florian	F1-0-M0N-AM2
Wieland, Sandra	C4-0-FRI-PM1
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Wiendlocha, Bartłomiej	E3-H-TUE-PM1
Wierzbicka-Miernik, Anna	B8-O-WED-PM2
Wierzbicka-Miernik, Anna	C5-O-FRI-PM1
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Wierzbicki, Rafał	D2-O-WED-PM1
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Wiessner, Manfred	B1-O-FRI-PM1
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Wilde, Fabian	D9-O-WED-PM2 D1-P-TUE-P1-10
Wilde, Gerhard	D5-O-THU-PM1, B8-O-THU-AM2
Wilhelm, Claire	F2-O-WED-AM2
Wilhelm, Harald	B11-0-TUE-PM1
Wilhelmi , Christian	C1-II-P-THU-P2-5
Willaime, Francois	D8-H-WED-PM1
Willhammar, Tom	B7-0-WED-PM1
Williams, Aaron	H1-H-TUE-AM2
Williams, Garth	D1-O-TUE-PM1
Williams, Gregory A	D1-O-TUE-PM2
Williams, Stewart	C4-O-THU-AM2

Willumeit-Römer, Regine	F1-O-MON-AM2, F1-O-TUE-PM2
Wilms, Markus B.	B8-0-WED-AM2
Wilms, Markus Benjamin	C4-0-FRI-AM2
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Wilson, Alison	B3-O-TUE-AM2
Winarto, Winarto	A7-II-P-THU-P2-1
Winkler, Blaz	C11-P-THU-P2-10
Winwood, Sean	B11-O-MON-AM2, B3-O-WED-PM1
Wiringgalih, Petit	E4-0-WED-PM2
Wirtz, Marius	E4-P-THU-P2-2
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Withers, Philip J	C4-O-WED-PM2 C4-O-THU-PM2,
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Wojewoda-Budka, Joanna	C5-O-FRI-PM1
Wojnar, Piotr	D2-O-WED-PM1
Wolf, Daniel	C11-O-THU-AM2, C11-H-THU-AM2
Wolf, Marcus	B10-P-TUE-P1-12
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Woll, Karsten	A7-H-THU-PM1
Wollgramm, Philip	B11-O-MON-PM1, B3-O-MON-AM2
Wolski, Krzysztof	D8-O-WED-PM1
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Wondraczek, Lothar	B5-P-TUE-P1-8
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Wood, Peter	B7-H-WED-PM2
Woschke, Elmar	C6-O-MON-AM2
Woschke, Elmar	C6-O-TUE-PM1
Wright, Daniel	E3-0-WED-PM1 D1-0-TUE-PM1
Wright, Gwen Wrobel, J.S.	D8-O-THU-PM2
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Wrobel, Jan	B8-O-WED-PM2
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Wu, Meiling	B3-0-TUE-PM2
Wu, Shi	D10-II-P-THU-P2-
wu, shi	D6-P-THU-P2-1
Wu, Weiwei	B5-P-TUE-P1-25
Wu, Wu-Juan	B2-0-THU-AM2
Wu, Xiaoxiang	B3-O-MON-AM2
Wu, Yujuan Wurm, Andreas	B2-0-THU-AM2 A3-P-TUE-P1-9
Würn, Allureas Würschum, Roland	A7-0-M0N-PM2,
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Xanthakis, John	C11-P-THU-P2-8, C11-P-THU-P2-9
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Xiao, Chengbo	B3-O-TUE-PM2	Yannopoulos, Spyros	E1-0-TUE-PM2,	Yugami, Hiroo	E1-I/K-TUE-AM2
Xiao, Xianghui	D1-O-WED-AM2		E3-P-TUE-P1-23	Yüksel, Behiye	C1-O-FRI-AM2,
Xie, Guong	B9-P-THU-P2-5	Yannopoulos, Spyros N.	B5-O-MON-AM2 B4-O-THU-PM2	. ,	B5-O-MON-PM2
Xie, Zhipeng	B5-P-TUE-P1-25	Yanushkevich, Zhanna		V Lord Cook	C8-P-THU-P2-7, C8-O-THU-PM1,
Xingli , He	A8-O-MON-PM1	Yao , Jin	A8-O-MON-PM1	Yuksel, Caglar	C8-P-THU-P2-10,
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Xiong, Zhiping	B1-I/K-TUE-AM2	Yao, Mengji	B1-O-FRI-AM2	Yusenko, Kirill V.	B8-O-THU-PM2
Xu, Chunjie	B2-P-TUE-P1-4,	Yao, Yao	B9-O-THU-PM1	Yushkov, Anton	D2-P-TUE-P1-24
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The Federation of European Materials Societies

Networking for European Materials Scientists and Engineers

What is FEMS?

In June 1986, the Institute of Metals in London (IOM), the German Society for Metals (DGM) and the French Society for Metallurgy (SFM) agreed the need for European metals and materials societies to act more in concert and behave in a generally more "European" manner.

Following a few meetings, a memorandum of understanding to form the Federation of European Materials Societies was signed in January 1987.

The first FEMS General Assembly took place in Paris on 11 December 1987, with IOM, SFM and DGM as the three founder members. In the years that followed, membership of FEMS increased steadily, and by 1993 there were fourteen full members in thirteen different countries.

Today FEMS is a not-for-profit association of 27 European materials societies and associations representing in excess of 25,000 materials professionals, covering science and engineering in various fields including metals, polymers, ceramics, composites, glasses, nano, natural and biomaterials.

The aims of the association are to:

- Promote the wide dissemination of scientific, technical and other knowledge relating to materials notably through its conference series (EUROMAT & Junior EUROMAT).
- Facilitate the communication and exchange of information between its members.
- Coordinate the activities of member societies in order to make optimum use of resources.
- Ensure optimum visibility of materials science and engineering in governmental and non-governmental organisations, in the economy and in the academic environment.
- Contribute to developing links and collaboration between RTOs and industry

FEMS is an active member in several European projects & networking activities devoted to the promotion of actions in the field of Materials Science and Engineering, such as CSA Projects under FP7 and HORIZON2020 like MATVAL and MATCH, EUREKA Projects like Metallurgy Europe, and Networks like Alliance for Materials A4M, EUMAT, and EMIRI and Education programmes like the ERASMUS MUNDUS Programme.

Individual members of FEMS' member societies as shown on the map are entitled to a range of benefits which are listed on the following page.

Further information on FEMS, medals, events and activities can be found on the association's website.

www.FEMS.org

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As a MEMBER of your National Society (and if they are a member of FEMS), you will receive the following benefits:

- As a member you would be entitled to the member registration fee (of the national society) at 'FEMS endorsed events' which can include conferences and workshops (where you see the FEMS logo on event promotional materials and also advertised via the FEMS website)
- Reduced rates (15% or member rate offered by the organising society) to EUROMAT
- Reduced rates (15% or member rate offered by the organising society) to Junior EUROMAT
- Preferential rates to Taylor & Francis publications and books and CRC publications (25% discount using special code available from your National Society)
- Membership and access to a vast European network of over 20,000 materials professionals
- Receive copies of the FEMS newsletter

- You can be nominated for FEMS awards by your National Society (subject to meeting the relevant criteria)
- Opportunities to network with materials professionals at FEMS events
- Access to FEMS conference proceedings via secure area of FEMS website and other Knowledge Exchange Materials
- FEMS has developed valuable links to the European Commission and to important European Technology Platforms being a member of the Alliance for Materials (A4M). As a member of your National Society you will shape the future of materials R&D and by this actively contribute to the societal challenges in Europe.

If you are unsure whether your national society is a member of FEMS please check our website for further information.



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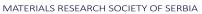






















Lithuanian Materials Research Society

Slovenian Society for Materials

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Hellenic Metallurgical Society (HMS)



The Hellenic Metallurgical Society (HMS) was established in year 2000 by partners coming from Academia and Industry. Since then, various National and International Conferences and Workshops have been organized and sponsored. The mission of HMS is to promote science and engineering in the context of metallic materials and metallurgy. HMS accommodates the long tradition in Greece in metals' production and processing, as well as the excellence of the conducted research in the highly-ranked Universities and Research Centers. The objectives of HMS include:

- The advancement of science and technology in metallic materials and metallurgy.
- Offering the field for constructive cooperation between scientists, academicians, researchers, engineers and industrialists.
- The exchange and dissemination of knowledge, by organizing or sponsoring related conferences, workshops and seminars.
- The contribution to the improvement of Greek education in the area of interest.
- The representation of the Greek metallurgical (scientific and engineering) community in relevant international societies, like FEMS.
- The support of young scientists by offering scholarships and opportunities to join Materials Science and Engineering conferences.

Hellenic Society for the Science and Technology of Condensed Matter (HSSTCM)



The Hellenic Society for the Science and Technology of Condensed Matter (HSSTCM) is a non-profit Greek Scientific Society, established in 1981. The Society's vision is to be a catalyst for scientific and technological excellence in the fields of Condensed Matter and Materials Science in Greece. HSSTCM aims at promoting the exchange of new developments and achievements in Condensed Matter and Materials Science and supporting their applications. It serves the corresponding Hellenic communities with vigour and responsibility, in Greece and globally, and brings together Greek research groups, which perform research on Condensed Matter and Materials Science, with research groups abroad. The Society's activities include the organisation of seminars, conferences, lectures, and workshops; newsletters with events, news, and other information; awards to young researchers, and any other activity which supports the communities of Condensed Matter and Materials Science.



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At **ALUMIL**, we are building excellence every day. Through our modern production facilities and strict quality controls along the entire production line, we ensure the creation of superior products of high added value. Our continuous research and development leads to offering unique solutions with many innovative features, which totally meet the needs of our customers.

With more than 30 years of experience and 1.900 employees, ALUMIL is one of the most advanced companies globally in the design and production of architectural aluminium systems, owning state-of-the art production lines in its 18 factories over South Eastern Europe. ALUMIL produces high quality aluminium systems which are designed and developed in the Group's innovative Research & Development Department and then tested and certified by internationally accredited certification institutes and laboratories, such as ift Rosenheim (Germany), A.A.M.A (USA), Istituto Jordano (Italy), CSTB (France), ATG (Belgium), EXOVA (United Kingdom) etc.

Advanced industrial facilities of high standards and a strong international sales network in over 60 countries worldwide, with 32 subsidiaries across the globe, in all continents, prove that ALUMIL is among the top suppliers of architectural aluminium systems which meet the highest requirements and cover a very wide range of architectural needs.



Anton Paar TriTec SA

Rue de la Gare 4, CH 2034 Peseux tel: +41 32 552 16 00 e-mail: sales.tritec@anton-paar.com www.anton-paar.com

Anton Paar TriTec SA Stand 06

Anton Paar TriTec SA develops, manufactures and sells instruments to characterize mechanical properties of surfaces. The company has been a global leader in this market for more than 30 years under the name CSM Instruments SA. Anton Paar GmbH has acquired CSM Instruments SA in November 15, 2013. The company develops the following types of instruments:

Scratch Testers: to determine coating adhesion, scratch resistance and mar resistance in research, development and quality control. To characterize film-substrate systems and to quantify parameters such as adhesive strength and friction force and using a variety of complementary methods.

Instrumented Indentation Testers: to precisely determine the mechanical properties of thin films, coatings or substrate, to measure properties like hardness and elastic modulus of almost any type of material and to conduct creep, fatigue and stress-strain studies on surfaces and MEMS in the nanometer range.

Tribometers: to observe interacting surfaces in relative motion, the practice of studying friction, wear and lubrication and to measure new materials (ceramics, metals, polymers), lubricants and oil additives, self-lubricating systems, quality assurance.

Coating Thickness Tester: to determination the thicknesses of coatings in a quick, simple and inexpensive way.



BETA CAE Systems International AG

D4 Business Village Luzern, Platz 4 CH-6039 Root D4 Switzerland tel: +41-41-545 3650 fax: +41-41-545 3651 www.beta-cae.com

BETA CAE Systems International AG Stand 11

BETA CAE Systems transformed CAE by introducing revolutionary automation software tools and practices into Simulation and Analysis processes almost 30 years ago.

Committed to our mission to enable engineers to deliver results of high value, we continue to offer state-of-the-art, high-performance software and best-in-class services. Our simulation solutions liberate low risk and high Return-On-Investment innovation.

The ground breaking technology, the excellent services and our high standards of business ethics are the three pillars on which BETA was founded and grows since then.

Our passion for engineering, our drive for excellence, and our loyalty to customers and partners, are the key ingredients of our success. We first established our reputation in the Automotive sector and now we are proud of the deployment of our software also in the Aerospace, Defense, Biomechanics, Electronics, Energy, and other industries. Our solutions exceed their requirements in all the simulation disciplines, and allow for the development of the right product, for the right market, at the right time.



Bruker microCT

Kartuizersweg 3, B-2550 Kontich, Belgium tel: +32 (0)3 877 5705 e-mail: Info.BmCT@bruker.com www.bruker.com/products/ microtomography

Bruker microCT Stand 15

Bruker microCT makes micro-CT scanners with unparalleled resolution and performance both in-vivo and ex-vivo. Fast GPU reconstruction and comprehensive analysis software is standard, with versatile volume of interest selection, morphometric and microdensitometric parameters, customizable batch operations and 3D visualization-animation. Sales and in-depth application support is provided via global Bruker offices and the local distributors. Please visit Bruker.com for more information.



Bruker Nano GmbH

Am Studio 2D, 12489 Berlin, Germany tel: +49 30 6709900 e-mail: info.bna@bruker.com www.bruker.com/nano-analytics

Bruker Nano GmbH Stand 20

Bruker Nano Analytics offers solutions for all your nanoscience needs.

Bruker Nano Analytics' electron microscope analyzers QUANTAX EDS, WDS, EBSD and Micro-XRF on SEM offer the most comprehensive compositional and structural analysis of materials available today. The full integration of this unique range of analytical tools into the ESPRIT 2 software allows you to easily combine data obtained by these complementary methods for best results.

The new SEM and TEM PicoIndenters add a further analysis dimension permitting the quantitative measurement of nanomechanical properties. This includes hardness, modulus, and yield strength, which are correlated to the live imaging of material deformation provided by the host microscope.

Bruker Nano Analytics' also offers a variety of benchtop micro X ray fluorescence spectrometers for spatially resolved composition analysis for a multitude of applications in industry and research.



Bruker Nano Surfaces

7 rue de la Croix Martre, 91120 Palaiseau, France tel: +33 06 25 85 39

Bruker Nano Surfaces Stand 21

Bruker Nano Surfaces Division manufactures atomic force microscopy, white light optical profilers, stylus profilers, tribology & mechanical testing tools and fluorescence microscopes.

Our atomic force microscopes incorporate the very latest advances in AFM techniques, including the revolutionary self-optimising ScanAsyst™ AFM imaging mode and the Peak-Force QNM® atomic force microscopy imaging mode that suit a wide array of application areas.

Our 3D metrology and inspection systems include Optical and Stylus Profilers. They deliver high speed automated measurements of critical dimensions, roughness, flatness and form. Applications include QA/QC on medical devices, tribology, film thickness and optics form and finish

Our TriboLab Universal Mechanical Tester system is a unique platform that can be configured for almost any mechanical test. Applications include micro and nanoindentation, scratch testing, wear testing, tensile testing, tribocorrosion etc.

Our fluorescence microscopy systems provide a full range of solutions for life science researchers, including multiphoton imaging systems, confocal systems and the super-resolution microscopes.



HELLENIC CABLES S.A., Hellenic Cable Industry

33 Amarousiou-Halandriou Str., 151 25 Maroussi, Athens, Greece tel: 0030 210 6787 416 e-mail: info@cablel.vionet.gr www.cablel.com

CABLEL HELLENIC CABLES GROUP A leading European producer of reliable and competitive cable solution

The Cablel Hellenic Cables Group is one of the largest cable producers in Europe With a strong export orientation and focus on development of value added products and services including turnkey projects such as high and extra-high voltage cables and submarine cables, the Group makes significant investments towards enriching its product portfolio and enhancing its sustainability profile.

The Group's wide product range, which is sold internationally under the Cablel® trademark, extends to PVC, EPR and XLPE insulated power cables (rated up to 500kV), marine and low smoke halogen free cables, fire resistant cables, telecommunication, signal and data cables with copper conductors or optical fibres, as well as fireretardant halogen free plastic and elastomer compounds and enamelled wires. Technical know-how is combined with continued investment in state-of-the-art machinery to ensure levels of efficiency and quality which meet the strictest standards. Commitment to quality and sustainable development has been a key factor in enabling Cablel Hellenic Cables Group to establish a strong market position internationally. The Company's highly experienced technical and managerial staff have a strong commitment to technological excellence and outstanding quality, which ensures that users of Cablel® products have made a reliable choice.



CORINTH PIPEWORKS S.A.

33, Amarousiou-Halandriou Str., 151 25 Maroussi, Attiki tel: 0030 210 6787680 e-mail: info@cpw.gr www.cpw.gr

CORINTH PIPEWORKS A leading steel pipe supplier of the global energy industry

Corinth Pipeworks is one of the largest steel pipe manufacturers in Europe with a leading position in the global energy industry.

Corinth Pipeworks began operations in 1969 and has since established itself in the production of steel pipes for the transportation of oil, gas and water, as well as the manufacturing of steel hollow sections for construction.

We offer reliable and technically sophisticated solutions to demanding customers worldwide such as Chevron, BP, Shell, OMV, Wintershall, Snam, RWE, Spectra, Energy Transfer, Williams, ENI, Kinder Morgan, Plain All American, Enbridge, Cheniere Energy, Saudi Aramco, Exxon Mobil, Saipem, Allseas, Subsea7 and Technip.

Our vision is to be the steel pipe producer of choice, to maintain our dedication to delivering energy to the world, to grow sustainably and set standards of excellence, to increase our efficiencies and add exceptional value to our customers.

:: csem

CSEM SA

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CSEM SA - technologies that make the difference

CSEM, founded in 1984, is a research and development center (public-private partnership) specializing in microtechnology, nanotechnology, microelectronics, system engineering, photovoltaics and communications technologies. Around 450 highly qualified specialists from various scientific and technical disciplines work for CSEM in Neuchâtel, Zurich, Muttenz, Alpnach, and Landquart.Further information is available at www.csem.ch.



Dynamic Systems Inc. (Gleeble)

Poestenkill, New York 12140 USA tel: +1 518-283-5350 e-mail: info@Gleeble.com www.Gleeble.com

Dynamic Systems Inc. (Gleeble) Stand 23

Materials researchers are frequently asked to extend the boundaries of what is possible in their industries. To help in this quest, Dynamic Systems Inc. (DSI) has developed a comprehensive line of thermal-mechanical physical simulators and testing machines. Gleeble® Systems are a complete family of research tools to improve materials and optimize manufacturing processes.

Whether you need to characterize new materials, optimize existing processes, explore new production techniques, or simulate the conditions of new applications, you will find there is a Gleeble system that will help you reduce costs, shorten development times, and open the door to new ideas, processes and profits.

Gleeble systems feature high-speed closed-loop heating systems coupled with robust closed-loop mechanical capabilities and digital control. Easy to use computer software is designed to provide a user-friendly interface to prepare test programs, control thermal and mechanical systems, and collect data.

Whatever your goal, there is a Gleeble system that will help you extend the reach of your investigations and provide the state-of-the-art tools required for today's modern laboratory.



EKSPLA

Savanoriu av. 237, LT-02300 Vilnius, Lithuania tel: 37052649629 e-mail: sales@ekspla.com www.ekspla.com

EKSPLA

Innovative manufacturer of lasers, systems and components from unique custom system for basic research to small OEM series. In-house R&D team and 25 years' experience enable to tailor products for specific applications and/or according to specific requirements.

Main products are femtosecond, picosecond and nanosecond lasers, industrial ultrafast lasers, tunable wavelength systems, ultrafast fiber lasers, high-energy laser systems and laser electronics.

Ekspla offers laser spectroscopy systems for SFG, THz and CARS spectroscopy Sum Frequency Generation Vibrational Spectroscopy for investigation of surfaces and interfaces of solids, liquids, polymers, biological membranes and other systems as well as studies of surface structure, chemical composition and molecular orientation.

Coherent anti-Stokes Raman scattering (CARS) microspectrometers for species selective spectroscopy and microscopy as well as non-destructive research for the biological and material sciences.

THz spectroscopy product line includes real time and fiber-coupled Thz spectrometers as well as wide range of components and accessories for Your own set-up.



ELKEME S.A., Hellenic Research Centre for Metals

56th km Athens-Lamia Nat. Road, 320 11 Oinofyta Viotia, Greece tel: 0030 2262604400 e-mail: info@elkeme.vionet.gr www.elkeme.gr

ELKEME S.A., Hellenic Research Centre for Metals

ELKEME was founded in 1999 to support the Greek metallurgical industry. Through continuous investment in highly skilled human resources and state of the art laboratories ELKEME focuses on industrial research and technological development/analysis in four major metal sectors: Aluminum, Copper, Steel and Zinc, providing efficient solutions the customers.

ELKEME activities are mainly focused on applied technological research towards:

- a.Development of new, innovative and high add ed value products as well as quality improve ment of existing.
- b.Optimization of industrial processes, to support energy and cost efficient operations but always with respect to human health and safety as well as the environment.
- c.Continuous research in plant environmental performance and impact assessment, as well as in sectors such as recycling, stabilization and utilization of by-products towards compa nies' sustainable growth.

ELKEME has established and maintains long term relationships with academic institutes, and industrial research entities both in Greece and in Europe. It is also actively participating in international collaborations on metallurgy and materials science research programs.

ELKEME is ISO 9001 certified and operates following laboratories:

- Analytical Chemistry (ISO 17025 certified)
- Environmental and Corrosion
- Process Metallurgy
- Physical Metallurgy and Forming
- Metallography and Electron Microscopy
- Materials Characterization
- Mechanical Testing & Manufacturing Technology
- Surface Science and Coatings
- Numerical Modeling



ELVAL S.A., Hellenic Aluminum Industry

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ELVAL S.A. A worldwide leading aluminium company

Elval Group is one of the leading aluminium flat rolled processing companies worldwide. For more than 40 years, Elval has been recognised as a trusted partner, committed to sustainable and innovative manufacturing of a broad portfolio of high quality aluminium products and services made for the industrial, packaging, construction, shipbuilding, automotive, energy, and HVAC markets.

Through an established global commercial network in more than 80 countries and 7 production plants in Greece, Elval exports over 80% of its production and is able to offer reliable and competitive solutions that meet the requirements of the most demanding global customers.

Through the Elval Technology centre, a department dedicated to R&D, the Company is able to introduce both innovations in manufacturing processes and high quality products. Elval having intense focus on investing in cutting edge infrastructure and product and process development the Company is able to supply its multinational customers with innovative products and solutions of excellent quality that generate high levels of added value.



ESM Foundation

Junkgerngasse 56 3012 Bern, Switzerland tel: +41 31 311 01 68 e-mail: info@esmfoundation.org www.esmfoundation.org

ESM

The "Entwicklungsfonds Seltene Metalle" (ESM Foundation) is a Swiss non-profit organization founded in 1951. It is dedicated to support research and development activities in the field of Rare and Critical Elements, with a focus on their industrial applications. In pursuit of this goal, the Foundation sponsors and organizes conferences and workshops, publishes studies and surveys, coordinates projects in the field of Rare and Critical Elements, and confers scholarships and educational grants in areas relevant to the Foundation's topical focus.

ESM is a public interest foundation governed by Swiss Law. Its Board of Trustees represents a good balance of industrial and academic members. Day-to-day responsibilities are managed by the CEO who is selected by the Board. ESM is operating within a national and international network of experts, partner institutes and organizations.



Thermo Fisher Scientific (formerly FEI)

Achtseweg Noord 5, 5651 GG, Eindhoven, The Netherlands tel: +31 40 23 56000 e-mail: steve.hant@fei.com www.fei.com

Thermo Fisher Scientific (formerly FEI)

Our materials and structural analysis business includes electron microscopy, molecular spectroscopy, and laboratory elemental analysis instruments that are used by customers in life sciences, materials sciences, and industrial markets to accelerate breakthrough discoveries.

Within Electron Microscopy we offer the broadest range of high-performance microscopy workflows that provide images and answers at the micro-, nano-, and picometer scales. We combine hardware and software expertise in electron, ion, and light microscopy with deep application knowledge in the materials sciences, life sciences, semiconductors, and oil and gas markets.



Granta Design Ltd

Granta Design Limited, Rustat House, 62 Clifton Road, Cambridge, tel.: +44 (0)1223 218000 e-mal: education.team@grantadesign.com www.grantadesign.com

Granta Design Stand 27

Granta Design supports thousands of university educators worldwide as they teach materials, processes, and sustainability to the next generation of engineers and scientists. Our software and teaching resources are used at more than 1,000 universities and colleges worldwide. Granta also helps to organize the Materials Education Symposia, global events for materials educators where they can share ideas, tools, and best practice. The FEMS 30th Anniversary Education Tutorial with Granta Design will focus on the visual and interactive materials teaching resources developed by Professor Mike Ashby and Granta. It will demonstrate CES EduPack and its visual tools for materials science, design, and engineering, and it will give participants hands-on experience. As the materials intelligence experts, Granta helps hundreds of leading engineering enterprises to manage information on the materials that are essential to their businesses, enabling them to make better materials decisions.



HALCOR S.A., Metal Works

62nd km Athens-Lamia National Road, 32011 Inofita -Viotia tel: 0030 22620 48111 e-mail: info@halcor.vionet.gr www.halcor.com

HALCOR GROUP A leading global producer of innovative and value added copper solutions

Halcor is a leading Group of companies that specialize in the production of copper

and copper alloys products with dynamic commercial presence in the European and global markets. For more than 75 years, Halcor has been offering innovative and added-value solutions that meet contemporary client demands in fields, such as plumbing, HVAC&R, renewable energy, architecture, engineering and industrial production. As a result of the Group's strategic investments in research & development, Halcor is recognized as one of the leading copper producers globally, setting new standards in copper processing. The company maintains a consistent focus on quality and environmental protection and a strong commitment to the principles of sustainable development. In this context, all production facilities in the Group's plants leverage advanced technologies to bringin the market innovative products that are energy efficient and environmentally friendly.



ICE Publishing

One Great George Street, London SW1P 3AA, United Kingdom tel: [+44]20 7665 2027 e-mail: giulia.vallone@icepublishing.com www.icevirtuallibrary.com

ICE Publishing Stand 25

ICE Science is the innovative multi-disciplinary materials science series from ICE Publishing, the publishing division of the Institution of Civil Engineers, who have been uniting research and practice in science and technology since 1836.

Launched in 2012, the ICE Science collection comprises 5 titles, four of which have already been accepted into Web of Science: Bioinspired, Biomimetic and Nanobiomaterials; Emerging Materials Research; Green Materials; Nanomaterials and Energy; and Surface Innovations.

For further information, please visit our booth or our newly upgraded website **www.icevirtuallibrary.com**.



Jeol(Europe)Sas

Espace Claude Monet, 1 allée de Giverny , 78290 Croissy Sur Seine - France tel: (+33) 1 30153737 e-mail: jeol@jeol.fr www.jeol.fr

JEOL(EUROPE)SAS Stand 07

Founded in 1949, JEOL aims the development and manufacture of high-tech scientific equipment. These facilities are essential to the laboratories for research, development and quality control of new products. Its fields of investigation are multiple: sample preparation (cross polisher, ion slicer), nanotechnology (SEM, TEM, Auger, FIB...), the environment, medicine, the life sciences (NMR, EPR,... mass spectrometry). With 3000 employees in more than 80 countries JEOL is the world leader in electron microscopy. This position leads us to constantly innovate in bringing us closer to our customers through dynamic partnerships to meet the upcoming challenges.



LARCO GMM SA

27 Fragkokklisias Str., Marousi 151 25, Greece tel: +30 210 6170100 e-mail: larco@larco.gr www.larco.gr

LARCO GMM SA

LARCO is a leading mining and metallurgical Company exploiting nickeliferrous ore mines and lignite mines in Greece, operating continuously since 1963.

The main field of its activities is the extraction of approximately 18.000–20.000 tons of Ni per year in the form of ferronickel granules (FeNi) - out of the Greek nickeliferrous ores. The whole FeNi production is being exported.

LARCO presently occupies in all its activities 1.200 employees and workers and is very well known among European stainless steel producers for the quality of its products and the best after sales services provided to them.

The company's activities implement and efficiently operate an Integrated Management System that fully meets the requirements of ISO 9001: 2008, OHSAS 18001: 2007 and ISO 14001: 2004.

LARCO's activities are widely distributed allover Greece: Metallurgical Plant for the ferronickel production at Larymna Fthiotida, Mines at Viotia, Euboia and Kastoria and a Lignite Mine at Servia Kozani. The coordination of these activities is performed by the Headquarters in Athens.



MaTecK Material-Technologie & Kristalle GmbH

Im Langenbroich 20 D-52428 Juelich, Germany tel: +49-(0)-2461-9352-0 e-mail: info@mateck.de www.mateck.com

MaTecK Material-Technologie & Kristalle GmbH

MaTecK GmbH, located in Germany, is a leading producer and supplier of high-tech research materials as follows:

- Metal single crystals (e.g. super alloys, monochromators, magnetic shape-memory alloys, etc.)
- Oxide single crystals (e.g. CoO, FeO, NiO, etc.)
 Substrates (e.g. for HT-superconductors, for nitrides, etc.)
 Wafers (e.g. Ge, Si, II-VI, III-V, IV-VI semiconductors, etc.)
- Service for high quality polishing of above mentioned materials (with Ra values in the sub-nanometer range)
- Pure elements and alloys (e.g. powders, foils, sheets, wires, rods, etc. with high purities 99.9 99.9999%)
- Sputtering targets (customized compositions and geometries produced by casting and powder metallurgy)
- Optical crystals and components (e.g. lenses, prisms, windows, etc.)
- Stable isotopes
- and other research materials

Furthermore MaTecK develops crystals and material samples with previously not tested compositions mainly according to customers' requirements. Please find more information on our web-site: www.mateck.com



M.J PRINIOTAKIS S.A.I.C

Manoliasas 17 Street, 16121 Athens, Greece tel: 0030-210-7227719 e-mail: info@priniotakis.gr www.priniotakis.gr

M.J. PRINIOTAKIS S.A.I.C

(Official distributor of struers, Denmark & Phenom world, Netherlands) Stand 13

M.J. PRINIOTAKIS S.A.I.C came into existence in the year 1969, initially, serving as a distributor of a small number of Manufacturing Houses from Europe, U.S.A. and far East areas on exclusive basis. The company's goal has been the importation, distribution and support of high quality scientific apparatuses direct in the Research, Industrial, Electronic and Medical Sector. Until 1985, M.J. PRINIOTAKIS SAIC had become a Market Leader in the Greek market. In order to serve the above sectors, the company has established three full strength sales departments consisting of University Degree Diploma specialists. Through its specialized attention on all the market sectors, the company managed to grow and expand during these years by having exclusive arrangements with world's leading manufacturers in many fields, like Struers (Denmark) in the field of Materialographic Equipment and Consumables and Phenom World (Netherlands) in the field of Desktop Scanning Electron Microscopy (SEM). Today our company is on the peak of its growth cycle with important annual revenues through sales all over Greece, Cyprus and Balkans.



MICRESS® c/o ACCESS e.V.

Intzestr. 5, D-52072 Aachen, Germany tel: +49 241 80-98014 e-mail: G.J.Schmitz@micress.de www.micress.de

MICRESS® c/o ACCESS e.V.

MICRESS® - the MICRostructure Evolution Simulation Software – allows for the calculation of microstructure formation in metallurgical systems. The software is developed, maintained and distributed by ACCESS e.V., a non-profit research center at the RWTH Aachen University of Technology.

The evolution of a microstructure is governed by thermodynamic equilibria, diffusion and curvature. The strength of MICRESS® is the comprehensive treatment of these aspects. MICRESS® applies a multiphase field method for multicomponent alloys and enables the treatment of multiphase, multigrain and multicomponent problems in the fields of solidification, grain growth, recrystallization or solid state phase transformations. For multicomponent technical alloys, the required thermodynamic data can be provided by direct coupling to thermodynamic data sets via a special TQ interface being developed in collaboration with Thermo-Calc AB, Stockholm.



Motor Oil Hellas Corinth Refineries S.A

12A Irodou Attikou Street, 151 24, MAROUSSI, GREECE tel: (+30 210) 8094000 e-mail: dimitrpa@moh.gr www.moh.gr

Motor Oil Hellas Corinth Refineries S.A Stand 10

MOTOR OIL (HELLAS) CORINTH REFINERIES S.A. (MOH) was founded in 1970 and started operating its refinery in 1972.

MOTOR OIL is the largest private industrial complex in Greece and among the top refineries in Europe in terms of complexity (11.5 according to Nelson Complexity Index). It can process crude oil of various characteristics and produce a full range of petroleum products, serving major petroleum marketing companies in Greece and abroad. Additionally, the refinery of Motor Oil is the only one that produces base oils in Greece.

The annual distillation capacity of the refinery has reached 185,000 bbl/day. It has a storage capacity of 2.5 million cubic meters, modern port facilities for tanker docking suitable for tankers up to 450,000 tons DWT and state of the art truck loading terminal which can serve up to 220 road tankers per day.

Since 2001, the company is listed in the Athens Stock Exchange, and is a constituent of the FTSE/ATHEX LARGE CAP INDEX, the ATHEX COMPOSITE INDEX, and of other sectoral indices. Furthermore, since May 2006 the company is a constituent of the MSCI GREECE INDEX (Morgan Stanley Capital International).



N. ASTERIADIS S.A.

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N. ASTERIADIS S.A.

N. ASTERIADIS S.A., successor of NICOLAOS ASTERIADIS, established in 1955, is the older supplier of scientific instruments in Greece.

The company is today market leaders in Greece, in the fields of Electron Microscopes with JEOL and Analytical Instruments with SHIMADZU.

Company's policy is to guarantee the continuous improvement of the quality of the offered products and services, through which we try to satisfy the growing requirements of our customers in order to ensure the satisfaction of our enterprising targets.

The high level of the scientific and technical education of company's personnel, as well as their continuous training in the new developments in technology, the fair wages system of the company, the meritocratic conditions and the pleasant working environment guarantee the high sense of responsibility possessed by its human resources, which results in the prompt, reliable and high quality service of our customers and the polite facing of their every requirement.



NanoMEGAS SPRL

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NanoMEGAS SPRL

NanoMEGAS was created in 2004 by a team of scientists and experts in the field of electron crystallography and catalysis, and was the first to commercialize in 2004 a universal precession device for TEM.

Today as a result of our developments, precession diffraction / electron crystallography applications are present in almost every major electron microscopy /X-Ray crystallography scientific congress, with more than 400 publications (2004-2017) from various laboratories worldwide.

NanoMEGAS precession diffraction related instrumentation is actually present in more than 130 Laboratories all over the world. Our **ASTAR** device provides orientation and phase maps at 1-3 nm resolution (FEG-TEM) for a variety of materials without any need of particular specimen preparation. Precession diffraction can be also very useful in order to obtain **STRAIN** maps at 2-4 nm resolution with FEG-TEM, providing extremely important information for materials scientists. The recently developed **TOPSPIN** platform allows the user to perform advanced analytical precession diffraction experiments with the TEM.

NANOVEA'

NANOVEA

6 MORGAN STE 156 Irvine CA, 92618, USA tel: 9494619292 e-mail: info@nanovea.com www.nanovea.com

NANOVEA

Nanovea began designing and manufacturing instruments after years of experience in providing solutions for profilometry, mechanical and tribology applications. Firmly aligned with its vision, Nanovea aims to simplify advanced measurement technology to stimulate materials engineering for the common good. Ease of use, advanced automation and the dedication to superior accuracy are the driving forces behind Nanovea's full range of Profilometers, Mechanical Testers and Tribometers. Thousands of clients rely on Nanovea for accurate solutions, technically superior instruments, experienced assistance and comprehensive laboratory services. Nanovea is Today's Standard for Tomorrow's Materials.

NETZSCH

NETZSCH-Gerätebau GmbH

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NETZSCH-Gerätebau GmbH Stand 09

The NETZSCH Group is a mid-sized, family-owned German company engaging in the manufacture of machinery and instrumentation with worldwide production, sales, and service branches. The three Business Units – Analyzing & Testing, Grinding & Dispersing and Pumps & Systems – provide tailored solutions for highest-level needs. Over 3,000 employees at 163 sales and production centers in 28 countries across the globe guarantee that expert service is never far from our customers.

When it comes to Thermal Analysis, Adiabatic Reaction Calorimetry and the determination of Thermophysical Properties, NETZSCH has it covered. Our 50 years of applications experience, broad state-of-the-art product line and comprehensive service offerings ensure that our solutions will not only meet your every requirement but also exceed your every expectation.



Novaspider

Tolosa Hiribidea, 76 E 20018 Donostia-Sansebastian (Spain) tel: +34 943 324 603 e-mail: web@novaspider.com www.novaspider.com

Novaspider Stand 19

Novaspider is located at the CIC nanoGUNE facilities in San Sebastian, Basque Country (Spain). We provide innovative and advanced tools to produce 3D electrospun nanofibers for scientific research. Our technology has been developed with the expertise of nanoGUNE, a Research Center with more than 70 scientists from over 25 countries.

The perfect tool for researchers:

- Simple fabrication of 3D structures with the state of the art nanofibers at an extremely competitive price.
- A team of scientists and technicians is available for full support.
- The Industry 4.0 top technology allows to easily monitor and control all parameters involved.



Ovako AB

Box 1721, 111 87 Stockholm, Sweden tel: +46 (0)8 622 1300 e-mail: info@ovako.com www.ovako.com

Ovako AB Stand 18

Ovako develops high-tech steel solutions for, and in cooperation with, its customers in the bearing, transport and manufacturing industries. Our production is based on recycled scrap and includes steel in the form of bar, tube, ring and pre-components. Our steel makes our customers' end products more resilient and extends their useful life, ultimately resulting in smarter, more energy-efficient and more environmentally-friendly products.



Oxford Instruments NanoAnalysis

Halifax Road, High Wycombe, Bucks, HP12 3SE, UK tel:+44 1494 442255 e-mail: info@oxinst.com www.oxford-instruments.com

Oxford Instruments NanoAnalysis Stand 12

Oxford Instruments NanoAnalysis provides leading-edge tools that enable materials characterisation and sample manipulation at the nanometre scale. Used on electron microscopes (SEM and TEM) and ion-beam systems (FIB), our tools are used for R&D across a wide range of academic and industrial applications including semiconductors, renewable energy, mining, metallurgy, and forensics.





PPC S.A.-TRSC

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PPC S.A.-TRSC Stand 08

Testing, Research and Standards Center (TRSC) provides services that include tests in its laboratories, accreditations, research, inspections in the areas of PPC Group, instrument calibration, specialized studies, applications and analyses, specialized consultation studies as well as materials and equipment inspections for quality control of existing and under purchasing materials and equipment of all installations.

TRSC implements its services not only in its installations, but also on the products and on-site in the customers' installations, which range from the wider Public Sector to various industries.

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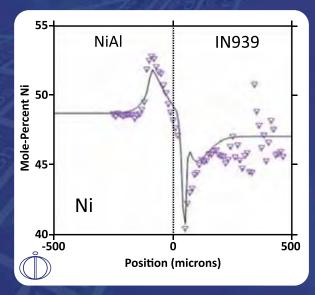
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Mapped diagram for M42 high speed steel

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